Ding-Geng (Din) Chen, Ph.D. ASA Fellow

[1]Executive Director and Professor in Biostatistics, College of Health Solutions,
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ResearchGate: https://www.researchgate.net/profile/Ding-Geng-Chen
Google Scholar: https://scholar.google.com/citations?user=I0yhzg0AAAAJ&hl=en

QUALIFICATIONS OUTLINE

- Elected Fellow, American Statistical Association, 2016
- Elected member, International Statistics Institute, 2016
- Elected Fellow, Society for Social Work and Research, 2018
- Executive director and Professor of Biostatistics with more than 20 years' experience in academia with more than 200 professional publications and 40 books in biostatistical clinical trial methods, meta-analysis, multi-level modelling, joint modelling, and Bayesian statistics.
- More than 25 years' experience as a professional statistician and biostatistician for government, pharmaceutical, and biotech industries
- Editor-in-Chief: Springer Book Series-Emerging Topics in Statistics and Biostatistics (https://www.springer.com/series/16213)
- Editor-in-Chief: Springer/ICSA Book Series in Statistics (https://www.springer.com/series/13402)
- Successfully Funded with multi-million dollars by NIH R01 and other state and federal proposals
- Program Committee Board Member and Publicity Chair for Deming Conference of Applied Statistics (https://www.demingconference.org. A primer international conference in biostatistics for the biopharmaceutical industry and FDA regulations since 1945) with distinguished awards on long-term service and professional presentations at the Deming Conference

1. EDUCATION

Ph.D. in Statistics (January 1992 to June 1995)

Department of Mathematics and Statistics, University of Guelph, Canada

Dissertation: A Shrinkage Estimator for Combination of Bioassays (Published at Biometrics)

Supervisor: Professors Edward Carter, Peter Kim and John Hubert

M.Sc in Statistics (September 1985 to July 1987)

Department of Applied Mathematics**,** Hunan University, China.

MSc. Thesis: Robustness in Linear Model

Diploma in Applied Mathematics (September 1978 to July 1981)

Department of Mathematics, Jishou University, P. R. China

2. PROFESSIONAL EXPERIENCE

October 2021 to present. Arizona State University, Phoenix, AZ, USA

Executive Director and Professor in Biostatistics, College of Health Solutions

Senior Global Futures Scientist, Julie Ann Wrigley Global Futures Laboratory

July 2015 to September 2021. University of North Carolina at Chapel Hill, NC, USA

Wallace H. Kuralt Distinguished Professor in Biostatistics and Director of Consortium of statistical development and consultation, School of Social Work.

Professor in Biostatistics, Department of Biostatistics, Gillings School of Global Public Health,

December 2010 to June 2015. University of Rochester Medical Center, Rochester, NY, USA

Professor in Biostatistics, Department of Biostatistics and Computational Biology, School of Medicine and Dentistry, University of Rochester, NY, USA

Professor in Biostatistics, Center of Research, School of Nursing, University of Rochester, NY, USA

Professor in Biostatistics, Institute for Data Science, University of Rochester, NY, USA.

August 2009 to December 2010: Georgia Southern University, Statesboro, GA, USA

Karl E. Peace Endowed Eminent Scholar Chair in Biostatistics and Professor in Biostatistics, Department of Biostatistics, Jiann-Ping Hsu College of Public Health.

August 2005 to August 2009:

Professor in Biostatistics, Department of Mathematics and Statistics, South Dakota State University, Brookings, SD.

Professor in Biostatistics, Department of Surgery, Sanford School of Medicine, University of South Dakota, Sioux Falls, SD.

July 2000 to Aug 2005: International Pacific Halibut Commission, University of Washington, Seattle, USA. Biostatistician/Quantitative Scientist

May 1996 to July 2000: Pacific Biologic Research Station, Government of Canada, Canada Biostatistician/Research Scientist

June 1994 to May 1996: Ontario Ministry of Natural Resources, Sault Ste Maria, ON, Canada. Research Statistician

January 1992 to June 1994: University of Guelph, Guelph, ON, Canada.

Teaching and Research Assistant, Department of Mathematics and Statistics.

August 1987 to December 1991: Hunan University, Changsha, Hunan, China

Lecturer (USA Assistant Professor-equivalent), Department of Applied Mathematics.

OTHER PROFESSIONAL EXPERIENCE

April 30 2023 to May 12, 2023: Universidade Nova de Lisboa, Portugal

The Centro de Matemática e Aplicações of Universidade Nova de Lisboa (NOVA Math) invites Professor Ding-Geng (Din) Chen for a scientific research visit to NOVA Math facilities, located at NOVA School of Science and Technology, to take place from 30th April to 12th May of 2023, with the aim of dynamizing synergies and expanding collaborations between the College of Health Solutions of the University of Arizona and NOVA Math researchers.

March 2017 to Present: University of KwaZulu-Natal, Pietermaritzburg, South Africa.

Honorary Professor, School of Mathematics, Statistics and Computer Science.

Nov 2015 to Present: Department of Statistics, University of Pretoria, Pretoria, South Africa.
Extraordinary Professor and DST-NRF-SAMRC South Africa Research Chair in Biostatistics.

July 2015 to July 2021. University of Rochester Medical Center, Rochester, NY, USA
Adjunct Professor in Biostatistics

May 1997 to May 1998. Institute of Chemical Toxicology, Wayne State University, Detroit, USA.
Visiting Scholar/Biostatistician

3. LEADERSHIP EXPERIENCE

October 2021 to Present. Executive Director in Biostatistics, College of Health Solutions (CHS), Arizona State University (ASU)

- Founding Director of Biostatistics Academic Core
  - Create and establish new Master's and Ph.D. biostatistics degree programs
  - Chair/co-chair the hiring committee to recruit faculty biostatistics members (2022AY, 2023AY)
  - Mentor faculty and staff members
- Founding Director of Biostatistics Consultation Core
  - Lead the development and expansion of the "Biostatistics Consultation Core"
  - Supervise core senior and junior staff members
  - Coordinate and support research proposals and projects for the Biostatistics Core
  - PI/Co-PI/Co-I for research projects and proposals to federal and state funding agencies
- Leadership Member of the Design and Innovation Studio for Health (DISH).
  - Advance strategic initiatives in the College and provide leadership and project management for key priorities identified by the Dean
- CHS Curriculum committee member (since August 2023)
  - Review new degree programs proposed to ASU
  - Review new courses developed by the CHS

July 2015 to September 2021. University of North Carolina at Chapel Hill, NC, USA

- Director of Consortium for Statistical Development and Consultation (CSDC) in Social

Intervention Research

- Built the first statistical simulation lab in social work research
- Developed and disseminated methodology on experimental design and advanced statistical modeling for social intervention research (produced a series of methods and high-impact publications)
- Offered training, consultation, and partnerships to translate research findings for practice and policy.

- Program Director on Social Research Methods and Data Analytics

December 2016 to Present: Deming Conference of Applied Statistics (The premier international conference in biostatistics for the biopharmaceutical industry and FDA regulations since 1945)

- Program Committee Board Member and Organizing Committee member, to develop and organize the annual conference program
- Publicity Chair to promote this conference nationally and internationally
- Featured speaker with an awarded medal for the invited tutorial for the last 12 years

January 2010 to December 2014. American Public Health Association.
Statistics Section, Chair-elect (2012), Chair (2013), Past-Chair (2014).
Program Committee Chair for 2010, 2011, 2012, 2013 and 2014.

December 2010 to June 2015. University of Rochester Medical Center, Rochester, NY, USA

- Executive member for "Center for Research and Evidence-Based Practice"
- Research Advisory Committee Member

August 2009 to December 2010: Georgia Southern University, Statesboro, GA, USA

- Karl E. Peace Endowed Eminent Scholar Chair in Biostatistics

August 2005 to August 2009: South Dakota State University and University of South Dakota

- Director and Coordinator of the biostatistics/bioinformatics Computational Sciences and Statistics (CSS) Ph.D. program
    - CSS Ph.D. Steering Committee member
- Coordinator of "Statistical Consulting Service"

- Group leader on "Biostatistics and Bioinformatics Research Group"
- Search Committee Chair for Bioinformatics faculty position to build the bioinformatics program

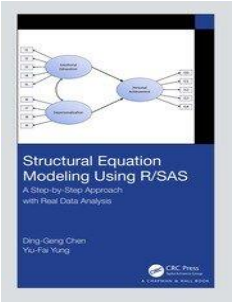
4. MEMBERSHIPS

1) American Statistical Association (ASA), Elected Fellow 2016, Lifetime Member
2) International Statistical Institute (ISI), Elected member 2016, Lifetime Member
3) The International Biometric Society (IBS), Lifetime Member
4) International Chinese Statistical Association (ICSA), Lifetime member. Editor-in-Chief, Springer/ICSA Book Series in Statistics (2013-),
5) South Africa Statistics Association (SASA), Member (2017-)
6) American Public Health Association (APHA) Member (2012-), Elected Chair (2013), Chair (2014), Past Chair (2015) of the Applied Public Health Statistics Section.
7) Society for Social Work and Research (SSWR). Member (2015-); Elected Fellow (2020-)

5. BOOKS

Co-Authored Books

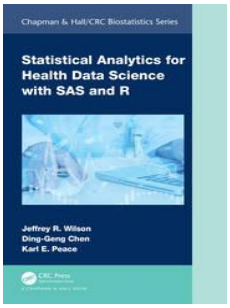
1) **Chen, D.G.** and Yiu-Fai Yung (2023). **Structural Equation Modelling Using R/SAS: A Step-by-Step Approach with Real Data Analysis**. Chapman and Hall/CRC. (published on July 24, 2023) 432 pages, ISBN (ebook): 9781003365860, ISBN (hardcopy): 9780367277352 https://www.routledge.com/9781003365860.



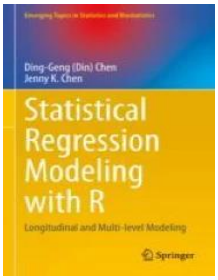
2) Wilson, J., **Chen, D. G**. and Peace, K. E. (2023). **Statistical Analytics for Health Data Science using R/SAS**. Chapman & Hall/CRC. (Published on March 28th, 2023) www.routledge.com/9781032325620, ISBN: 9781032325620. 312 pages.

Book Review from JASA:

https://www.tandfonline.com/doi/full/10.1080/01621459.2023.2273403

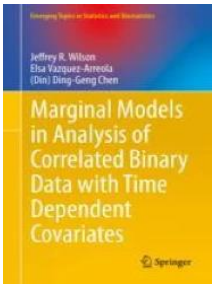


3) **Chen, D. G.** and Chen, J. K. (2021). **Statistical Regression Modeling Using R: Longitudinal and Multi-Level Modeling**. Springer (Emerging Topics in Statistics and Biostatistics). https://www.springer.com/gp/book/9783030675820. DOI: 10.1007/978-3-030-67583-7. 228 pages.

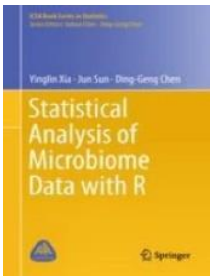


4) **Chen, D. G.,** and Peace, K. E. (2021). **Applied Meta-Analysis with R and Stata, Second Edition**. Chapman & Hall/CRC Biostatistics Series. FL: Boca Raton. 544 pages (March 19, 2021). https://www.routledge.com/Statistical-Meta-Analysis-using-R-and-Stata/Chen-Peace/p/book/9780367183837. https://doi.org/10.1201/9780429061240.

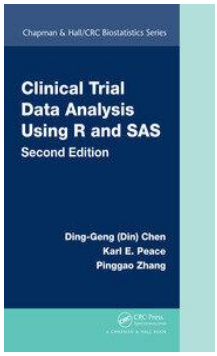
5) Wilson, J., Vazquez, E. and **Chen, D. G.** (2020). **Marginal Models in Analysis of Correlated Binary Data with Time-Dependent Covariates**. Springer (Emerging Topics in Statistics and Biostatistics). (Published on October 1, 2020). (https://www.springer.com/gp/book/9783030489038) 166pages. DOI: 10.1007/978-3-030-48904-5.



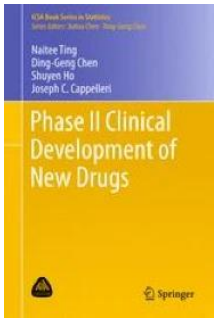
6) Xia, Y., Sun, J. and **Chen, D. G**. (2018). **Statistical Analysis of Microbiome Data with R**. Springer (ICSA Book Series in Statistics) (505 pages) (https://www.springer.com/us/book/9789811315336), Published on 20 October 2018. https://doi.org/10.1007/978-981-13-1534-3.



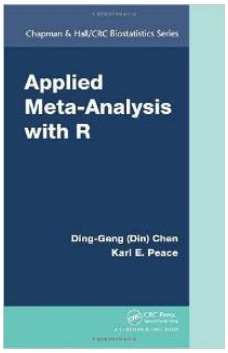
7) **Chen, D.G.**, Peace, K.E. and Zhang, P.G. (2017). **Clinical Trial Data Analysis using R and SAS**. Chapman & Hall/CRC Biostatistics Series. Boca Raton, FL. (https://www.crcpress.com/Clinical-Trial-Data-Analysis-Using-R-and-SAS-Second-Edition/Chen-Peace-Zhang/p/book/9781498779524). Published on May 3, 2017 by Chapman & Hall, 410 Pages 100 B/W Illustrations. https://doi.org/10.1201/9781315155104.



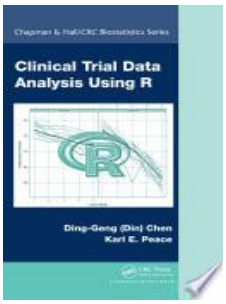
8) Ting, N., **Chen, D. G.**, Ho, S. and Cappelleri, J. (2017). **Phase II Clinical Development of New Drugs**. Springer (ICSA Book Series in Statistics). (http://www.springer.com/us/book/9789811041921), Number of pages: 241. Published: 24 April 2017. https://doi.org/10.1007/978-981-10-4194-5.



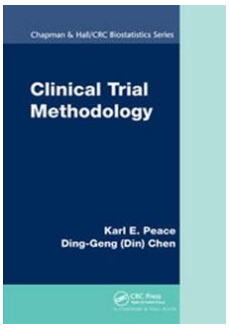
9) **Chen, D. G.** and Peace, K. E. (2013). **Applied Meta-Analysis with R**. (ISBN: 978-1-46-650599-5, 342 pages). Chapman & Hall/CRC Biostatistics Series. FL: Boca Raton. (https://www.crcpress.com/Applied-Meta-Analysis-with-R/Chen-Peace/p/book/9781466505995). Published by May 3, 2013. DOI: 10.13140/2.1.3165.5368.



10) **Chen, D. G.** and Peace, K.E. (2011). **Clinical Trial Data Analysis using R**. Chapman & Hall/CRC Biostatistics Series. FL: Boca Raton. (ISBN: 978-1-43-984020-7, 387 pages). (https://www.crcpress.com/Clinical-Trial-Data-Analysis-Using-R/Chen-Peace/p/book/9781439840207). DOI: 10.13140/2.1.3362.1444.



11) Peace, K.E. and **Chen, D. G**. (2010). **Clinical Trial Methodology**. Chapman & Hall/CRC Biostatistics Series. FL: Boca Raton. (ISBN: 978-1-58488-917-5, 420 pages) (https://www.crcpress.com/Clinical-Trial-Methodology/Peace-Chen/p/book/9781584889175). Published on July 20, 2010. DOI: 10.13140/2.1.4928.8646.



Co-Edited Books

12) **Chen, D. G.** (2024). **Biostatistics in Biopharmaceutical Research and Development: Clinical Trial Design (Volume 1).** Springer (ICSA Book Series in Statistics) .

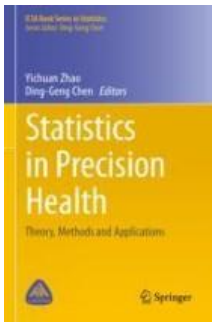
13) **Chen, D. G.** (2024). **Biostatistics in Biopharmaceutical Research and Development: Clinical Trial Data Analysis (Volume 2).** Springer (ICSA Book Series in Statistics).

14) Ye, J., **Chen, D. G.,** Zhou, W. Deng, Q. and Cappelleri, J. C. (2024). **Dose Finding and Beyond in Biopharmaceutical Development**. Springer (ICSA Book Series in Statistics).

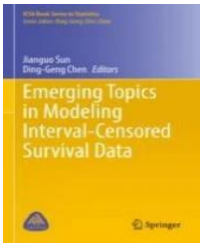
15) **Chen, D. G.** and Coelho, C. A. (2024). **Biostatistics Modelling and Public Health Applications** (Volume 1). Springer (Emerging Topics in Statistics and Biostatistics).

16) Coelho, C. A. and **Chen, D. G.** (2024). **Statistical Modeling and Applications - Heavy-Tailed, Skewed Distributions and Mixture Modeling**, Volume 2. Springer (Emerging Topics in Statistics and Biostatistics).

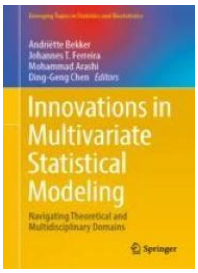
17) Zhao, Y. and **Chen, D. G**. (2024). **Statistics in Precision Health: Theory, Methods and Applications**. Springer (ICSA Book Series in Statistics): 540 pages. Published at May 12, 2024. https://link.springer.com/book/9783031506895. ISBN: 978-3-031-50689-5.



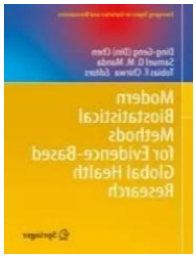
18) Sun, J., and **Chen, D. G.** (2022). **Emerging Topics in Modeling Interval-Censored Survival Data**. Springer (ICSA Book Series in Statistics). 340 pages, published at Nov 30, 2022. https://link.springer.com/book/9783031123689. https://doi.org/10.1007/978-3-031-12366-5.



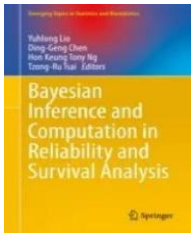
19) Bekker, A., Ferreira, J., Arashi, M. and **Chen, D. G.** (2022). **Innovations in Multivariate Statistical Modeling: Navigating theoretical and Multidisciplinary Domains**. Springer (Emerging Topics in Statistics and Biostatistics). 439 pages. Published at December 16, 2022. https://link.springer.com/book/9783031139703. https://doi.org/10.1007/978-3-031-13971-0.



20) **Chen, D. G.,** Manda, S. and Chirwa, T. (2022). **Modern Biostatistical Methods for Evidence-Based Global Health Research**. Springer (Emerging Topics in Statistics and Biostatistics). (https://link.springer.com/book/9783031110115). 480 pages. https://doi.org/10.1007/978-3-031-11012-2.

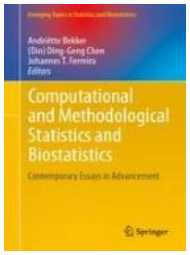


21) Lio. Y., **Chen, D. G.,** Ng, H.K. and Tsai, T. (2022) **Bayesian Inference and Computation in Reliability and Survival Analysis**. Springer (ICSA Book Series in Statistics). https://link.springer.com/book/9783030886578. 364 pages. https://doi.org/10.1007/978-3-030-88658-5.

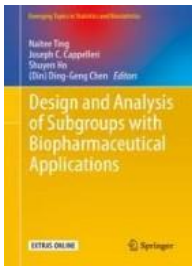


22) Zhao, Y. and **Chen, D. G.** (2021). **Modern Statistical Methods for Health Research**. Springer (ICSA Book Series in Statistics). https://www.springer.com/gp/book/9783030724368. 496 pages. https://doi.org/10.1007/978-3-030-72437-5.

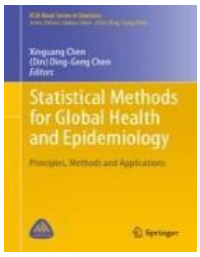
23) Bekker, A., **Chen, D. G**. and Ferreira, J. (2020). **Computational and Methodological Statistics and Biostatistics - Contemporary Essays with Advancements**. https://www.springer.com/gp/book/9783030421953. Springer (Emerging Topics in Statistics and Biostatistics). 543 pages. DOI: 10.1007/978-3-030-42196-0. ISBN: 978-3-030-42195-3.



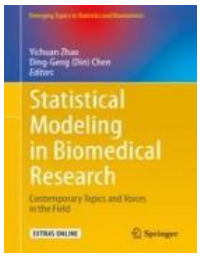
24) Ting, N., Cappelleri, J., Ho, S. and **Chen, D. G.** (2020). **Design and Analysis of Subgroups with Biopharmaceutical Applications**, Springer (ICSA Book Series in Statistics). 400 pages.
DOI: 10.1007/978-3-030-40105-4, Hardcover ISBN: 978-3-030-40104-7. https://www.springer.com/gp/book/9783030401047.



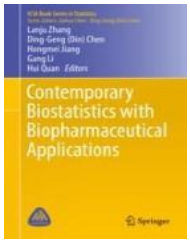
25) Chen, X. and **Chen, D. G**. (2020). **Statistical Methods in Global Health and Epidemiology: Principles, Methods and Applications**. Springer (ICSA Book Series in Statistics). 403 Pages, ISSN: 2199-0980, DOI:10.1007/978-3-030-35260-8.
(https://www.springer.com/gp/book/9783030352592).



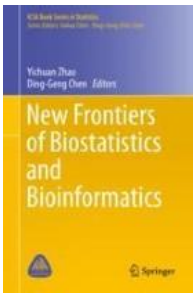
26) Zhao, Y. and **Chen, D. G.** (2020). **Statistical Modelling in Biomedical Research**. Springer (ICSA Book Series in Statistics). (https://www.springer.com/gp/book/9783030334154). 491 pages, ISSN: 2524-7735. DOI:10.1007/978-3-030-33416-1.



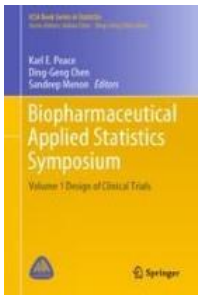
27) Zhang, L., **Chen, D. G**., Jiang, H., Li, G., Quan, H. (2019). **Contemporary Biostatistics with Biopharmaceutical Applications**, Springer (ICSA Book Series in Statistics). 336 pages, ISSN: 2199-0980. DOI: 10.1007/978-3-030-15310-6. (https://www.springer.com/gp/book/9783030153090).



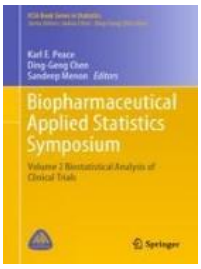
28) Lio. Y. Ng, H.K., Tsai, T. **Chen, D. G.** (2019). **Statistical Quality Technologies: Theory and Practice**, Springer (ICSA Book Series in Statistics). (https://www.springer.com/gp/book/9783030207083). 402 pages. ISSN: 2199-0980. https://doi.org/10.1007/978-3-030-20709-0



29) Zhao, Y. and **Chen, D. G.** (2018). **New Frontier in Biostatistics and Bioinformatics**. Springer (ICSA Book Series in Statistics). Published: 05 December 2018, 463 pages.
(https://www.springer.com/us/book/9783319993881).
https://doi.org/10.1007/978-3-319-99389-8.



30) Peace, K.E., **Chen, D. G**. and Sandeep Menon. (2018). **Biopharmaceutical Applied Statistical Symposium. (Volume 1**: **Design of Clinical Trials)**. Springer (ICSA Book Series in Statistics). Published: 20 August 2018, 409pages
(http://www.springer.com/us/book/9789811078286).



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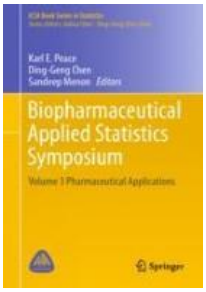

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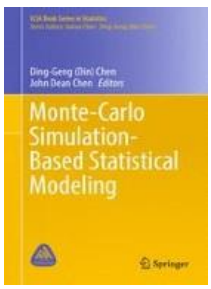

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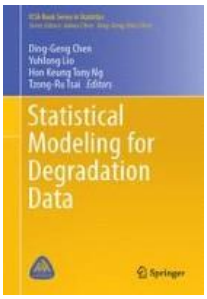

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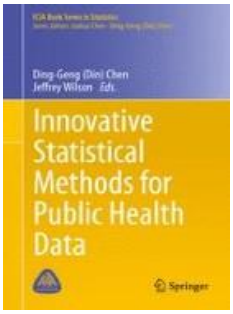

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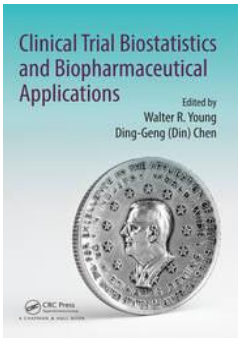

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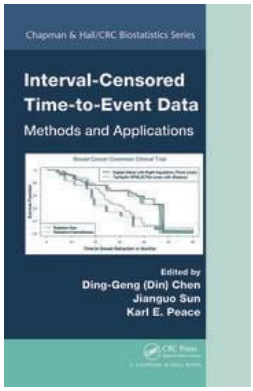

6. PROFESSIONAL PUBLICATIONS

Research Papers in Statistical/Biostatistical Methodology

1) **Ding-Geng Chen**, Yunro Chung, Kassu Mehari Beyene (2024). Estimate Time-To-Infection (TTI) Vaccination Effect When TTI for Unvaccinated Group is Unknown. **Statistics in Biosciences**. Accepted.
2) Kassu Mehari Beyene and **Ding-Geng Chen** (2023). Time-dependent ROC curve estimator for correlated right-censored time-to-event data. **Statistical Methods for Medical Research**. Accepted.
3) Rene Stander, Inger Fabris-Rotelli, **Ding-Geng Chen** (2023). Multiscale decomposition of spatial lattice data for hotspot detection. **Journal of South Africa Statistical Association**. Accepted.
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7. PROFESSIONAL PRESENTATIONS

- **Keynotes**

1) **Chen, D. G.** (2023). Bayesian Assurance over Statistical Power in Clinical Trial Design. INTERNATIONAL SYMPOSIUM ON MODERN BIOSTATISTICS AND STATISTICS, JULY 4th, 2023, FUTURE AFRICA, University of Pretoria, South Africa.

2) **Chen, D. G.** (2022). Integrative Data Harmonization and Statistical Joint Modeling in Evidence-Based Research. 2022 5th International Conference on Mathematics and Statistics (ICoMS 2022: http://www.icoms.org/keynote.html). Paris, France. June 18, 2022. Virtual Conference due to COVID.

3) **Chen, D. G.** (2022). What's the Truth? Understanding Statistics and Evidence-Based Medicine. Health Talk, College of Health Solutions, Arizona State University. February 17, 2022.

4) **Chen, D. G.** (2021) Big Data Inference and Statistical Meta-Analysis. December 19, 2021. International Conference on Causal Inference with Big Data. Institute for Mathematical

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5) **Chen, D. G.** (2021) Integrative Data Harmonization and Statistical Meta-Analysis (Distinguished Lecture). November 19, 2021. Department of Mathematics and Statistics, Georgia State University.

6) **Chen, D. G**. (2021). Data Synthesis with Bayesian Modeling and Meta-Analysis In Evidence-Based Public Health Intervention Research. American Public Health Association, October 24, 2021.

7) **Chen, D. G.** (2021). Bayesian Computation on Stochastic Cusp Catastrophe Model. 2021 4th International Conference on Mathematics and Statistics (ICoMS 2021). Paris, France. June 25, 2021. Virtual Conference.

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15) **Ding-Geng Chen** (2023) Jointly Analyze Longitudinal Data & Time-To-Event Simultaneously: Joint-Modeling and Latent-Class Joint-Modeling. 64th Annual Conference of the South Africa Statistical Association, Durban, South Africa. November 28, 2023. https://app.glueup.com/event/sasa-2023-78969/
16) Jeffrey Wilson and **Ding-Geng Chen** (2023). Modern-Day Data Analysis Techniques and Solutions in Biostatistics. University of West Indies, October 9 to 10. Two-day in-person workshop.
17) **Chen, D. G.** (2023). How To Jointly Analyze Longitudinal Data & Time-To-Event Simultaneously: An Integrative Data Harmonization Approach. Invited by Centro de Matemática e Aplicações of Universidade Nova de Lisboa. May 4, 2023, 9am to 5pm, one-day in-person workshop.
18) **Chen, D. G.** (2023). Stepped-Wedge Cluster Randomized Controlled Trial for Intervention Research: Design and Analysis. Invited by Advocate Aurora Research Institute. May 3, 2023, 2:30pm to 5pm, two and half hours workshop by zoom. https://www.advocateaurorahealth.org/research/
19) **Chen, D. G.** and Wilson J. (2023). Meta-Analysis and Network meta-analysis in Health Policy research and applications. International Conference on Health Policy Statistics (ICHPS). January 9, 2023. Two-hour in-person workshop.
20) Wilson, J. and **Chen, D**. (2022). Marginal Models in Analysis of Correlated Binary Data with Time Dependent Covariates. Applied Statistics Symposium-Statistical Innovation in the Era of Artificial Intelligence and Data Sciences. International Chinese Statistical Association. University of Florida, Gainesville, June 19, 2022 (full day short course).
21) **Chen, D. G.** (2022). Stepped-Wedge Cluster Randomized Controlled Trial for Intervention Research: Design and Analysis. University of Connecticut. January 25, 2022. Two-hour workshop by zoom.
22) Wilson, J. and **Chen, D**. (2021). Marginal Models in Analysis of Correlated Binary Data with Time Dependent Covariates in Biomedical Clinical Trials. Deming Conference of Applied Statistics. Virtual, December 6, 2021 (half day).
23) Xia, Y., and **Chen, D. G.** (2020). Statistical Analysis of Microbiome Data with R ICSA 2020

Applied Statistics Symposium. Virtual, December 13, 2020 (full day workshop).

24) Xia, Y., and **Chen, D. G**. (2020). Recent Development in Analyzing Microbiome Data from Clinical Trials. Deming Conference of Applied Statistics. Virtual, December 7, 2020 (half day workshop).

25) **Chen, D. G**. and Chen, X. (2020). Moderation, Mediation and Longitudinal Mediation Analysis: Case Studies and Practical Demonstration using R/Mplus. Society of Social Work Research, annual conference, Washington, DC. Jan 16, 2020 (half-day workshop).

26) **Chen, D. G**.(2019). Longitudinal Data Analysis and Latent Growth Curve Modelling in Public Health. 2019 ICSA Applied Statistics Symposium, Rayleigh NC June 9, 2019 (half-day)

27) **Chen, D. G**. (2019). **St**atistical Meta-Analysis and Quantitative Intervention Research. Department of Social Work and Social Administration, The University of Hong Kong. May 5 to 6, 2019 (2-day).

28) Burger, D. and **Chen, D. G. (2018).** Bayesian Nonlinear Models for Bactericidal Activity of Tuberculosis Drugs. Deming Conference of Applied Statistics. Atlantic City, December 1, 2018 (half day).

29) **Chen, D. G**. (2018). Advanced Statistics in R: Generalized Linear Models & Multi-Level Modelling. Data Matters: Data Science Short Course Series. August 13-14, 2018 (2-day Workshop).

30) **Chen, D. G**. (2018). Statistical Modelling (Regression and Hierarchical Linear Regression) and Computing Using R. CentralSouth University, Changsha, China. June 6-7, 2018 (2-day Workshop).

31) **Chen, D. G.** and Fraser, M. (2018). Bayesian Modelling in intervention research. Society of Social Work Research, annual conference, Washington, DC. Jan 11, 2018 (1-Day Workshop).

32) **Chen, D. G**. and Chen, X. (2018). A cusp catastrophe model for social behavioral research. Society of Social Work Research, annual conference, Washington, DC. Jan 12, 2018 (1-day workshop).

33) Joseph C. Cappelleri and **Ding-Geng Chen** (2017). Meta-Analysis and Network Meta-Analysis in Clinical Trials. The 73rd Deming Conference on Applied Statistics. Atlantic City, NJ. December 5, 2017.

34) **Chen, D. G.** and Sun, J. (2017). Interval-Censored Time-to-Event Data: Methods and Applications. European Joint Conference on Biometrics and Biopharmaceutical Statistics. Monday August 28, 2017, Vienna, Austria.

35) **Chen, D. G**. and Manda, S. (2017). Applied Meta-analysis using R. 61st World Statistics Congress - ISI2017(www.isi2017.org). July 15, 2017.

36) Yu, L., Liu, L. and **Chen, D. G.** (2017). A Homoscedasticity Test for the Accelerated Failure Time Model. (http://www.icsa.org/icsa/events/july-2-5-2017-2017-icsa-china-conference-focus-lifetime-data).

37) **Chen, D. G**. (2017). Cusp catastrophe linear regression model and its applications. EcoSta2017, Hong Kong, June 16, 2017.

38) **Chen, D. G.** (2017). Capturing the Quantum Changes in Human Behavior: Innovative Solutions to and Practical Application of the Cusp Catastrophe Modeling. The 29th Association for Psychological Science, Annual Convention, May 28, 2017

39) **Chen, D. G.** (2017). Time for the Paradigm Change in clinical trial design. The 5th Workshop on Biostatistics and Bioinformatics. (http://www.icsa.org/icsa/events/may-5-7-2017-5th-workshop-biostatistics-and-bioinformatics-0), May 6, 2017.

40) **Chen, D. G.** and Liu, F. (2017). Missing Data Analysis with SAS/R. American Statistical Association/Conference on Statistical Practice, Jacksonville, FL Feb 23, 2017, 1pm to 5pm.

41) **Chen, D. G.** (2017). Longitudinal and Multi-level Modelling using R. Society of Social Work and Research Annual Conference, Jan 12, 2017, New Orleans, Half-day Workshop from 8 am to 12pm.

42) Ma, Y. and **Chen, D. G.** (June 12 2016). Applied Meta-analysis Using R. International Chinese Statistical Association 2016 Symposium. Atlanta.

43) **Chen, D. G.** (2016). Applied Meta-Analysis Using R. Conference on Statistical Practice, American Statistical Association, San Diego. 2/18/2016 1:30 to 5:30pm

44) Xie, C. and **Chen, D. G**. (2015). Multiple Testing for Correlated Multiple Endpoints in Clinical Trials. The 71th Deming Conference in Applied Statistics, Atlantic City, NJ, USA. December 7, 2015. Atlantic City, NJ, USA.

45) **Chen, D. G.** (2015). "Meta-Analysis with R/SAS". 57th South Africa Statistical Association annual meeting, University of Pretoria, South Africa (Dec 3, 2015)

46) **Chen, D. G**. and Hu, C. (2014). "Competing Risks in Cancer Clinical Trials". The 70th Deming Conference in Applied Statistics, Atlantic City, NJ, USA. December 9, 2014.

47) **Chen, D. G**. (2014) "Meta-Analysis using R". The Illinois Chapter of the American Statistical Association Fall Workshop (Oct 10, 2014), Chicago, IL, USA.

48) Sun, J. and **Chen, D. G.** (2014). "Interval-Censored Time-to-Event Data: Methods and Applications". Joint Statistical Meeting, American Statistical Association. Tuesday, August 5 1-5 pm. Boston, MA, USA.

49) **Chen, D. G.** (May 16 to June 6, 2013). Biostatistics in R - Applications to Clinical Trials. Online course for "Statistics.com". Arlington, VA, USA.

50) **D. G. Chen** (2013). Applied Meta-analysis Using R. December 10, 2013. The 69th Deming Conference in Applied Statistics, Atlantic City, NJ, USA

51) **Chen, D. G**. (2013). Applied Meta-analysis using R. Twentieth Annual Biopharmaceutical Applied Statistics Symposium (BASS XX), Orlando, FL. 11/6-11/7, 2013. (received Plaque of Honor for this short course)

52) **Chen, D. G.** (May 17 to June 7, 2013). Biostatistics in R - Applications to Clinical Trials. Online course for "Statistics.com". Arlington, VA, USA.

53) **Chen, D. G.** and Sun, J. **(2012): Interval-Censored Time-to-Event Data: Methods and Applications.** December 3, 2012. The 68th Deming Conference in Applied Statistics, Atlantic City, NJ, USA.

54) **Chen, D. G.** (May 18 to June 8, 2012). Biostatistics in R - Applications to Clinical Trials. Online course for "Statistics.com". Arlington, VA, USA.

55) **D. G. Chen** (2012). Clinical Trial Data analysis using R. International Biometric Conference, Kobe, Japan, 8/26/2012.

56) **Chen, D. G.** (Nov 18 to Dec 2, 2011). Biostatistics in R - Applications to Clinical Trials. Online course for "Statistics.com". Arlington, VA, USA.

57) **Chen, D. G.** (May 27 to June 23, 2011). Biostatistics in R - Applications to Clinical Trials. Online course for "Statistics.com". Arlington, VA, USA.

58) **Chen, D. G.** (June 24th to July 15th, 2011). Clinical Trial Data Analysis Using R. online course for statcourse.com, Huntington Beach, CA, USA.

59) Chen, D. G. (2011). Clinical Trial Data Analysis Using R. December 2011. The 67th Deming Conference in Applied Statistics, Atlantic City, NJ, USA.

Recent Invited Talks

60) **Chen, D. G.** (2023). Statistical power to Bayesian assurance in superiority clinical trials. December 18, 2023. The16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023), HTW Berlin, University of Applied

Sciences (Wilhelminenhof campus), Berlin, http://www.cmstatistics.org/RegistrationsV2/CMStatistics2023/viewSubmission.php?in=1245&token=76276q8390800pp48s28np555n70o139.

61) Arne Ring, **Chen, D. G.,** and Rachid El-Galta (2023). Complex assurance considerations when designing biosimilar trials. December 18, 2023. The 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023), HTW Berlin, University of Applied Sciences (Wilhelminenhof campus), Berlin, http://www.cmstatistics.org/RegistrationsV2/CMStatistics2023/viewSubmission.php?in=1521&token=4qp88s7sr537rs8s466q20r9790q2775

62) Najmeh Nakhaeirad, Vahid Fakoor and **Chen, D. G**. (2023). Goodness of fit tests for partly interval censored survival data. December 16, 2023. The 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023), HTW Berlin, University of Applied Sciences (Wilhelminenhof campus), Berlin, http://www.cmstatistics.org/RegistrationsV2/CMStatistics2023/viewSubmission.php?in=1205&token=02q8qo418699p98025sr05op5o489sp6

63) Stander, R. Fabris-Rotelli, I. and **Chen, D. G**.(2023) Variogram estimation for spatial lattice data. SAMSA-Southern Africa Mathematical Statistical Association, University of Pretoria, South Africa. 11/21/2023

64) **Chen, D. G.** (2023). Estimate COVID-19 Vaccine Efficacy When the Time-to-Infection for Unvaccinated Group is Unknown. ONE HEALTH SYMPOSIUM. SAMSA-Southern Africa Mathematical Statistical Association, University of Pretoria, South Africa. 11/20/2023.

65) **Chen, D. G.** (2023). AI & ML for Health Science Research. Faculty of Health Sciences, University of Pretoria. South Africa. Nov 6, 2023. (zoom presentation)

66) **Chen, D. G.** (2023). Big Data Inference and Statistical Meta-Analysis. Department of Biostatistics, Bioinformatics & Biomathematics, Georgetown University Medical Center/Lombardi. October 13, 2023. (zoom presentation)

67) **Chen, D.** (2023). How to Assure a Successful Study: from Statistical Power to Bayesian Assurance. Biostatistics Seminar Series. College of Health Solutions, Arizona State University. September 20.

68) Jeffrey Wilson and **D. G. Chen** (2023) FIT TING MARGINAL MODELS IN ANALYZING CORRELATED BINARY SATA WITH TIME DEPENDENT COVARIATES. The 7th African International Conference (AIC) on Statistics, June 14, 2023. http://maics2023.uca.ma/

69) **Chen, D. G.** (2023). From Statistical Power to Bayesian Assurance: Time for Paradigm Change in Clinical Trial Design. The 7th African International Conference (AIC) on Statistics, June 14, 2023. http://maics2023.uca.ma/

70) **Chen, D. G.** (2023). Big Data Inference and Statistical Meta-Analysis. Invited by Centro de Matemática e Aplicações of Universidade Nova de Lisboa. May 10, 2023.

71) N. Nakhaeirad and **D.-G. Chen** (2022). The weighted least squares method for heteroscedastic interval censored survival data. CMStatistics 2022, London, December 18, 2022.

72) I. Maharela, **D. Chen**, and L. Fletcher (2022). Modelling non-homogeneous censored time-to-event data using semiparametric accelerated failuretime model. CMStatistics 2022, London, December 18, 2022

73) **Ding-Geng Chen** (2022). Biostatistical Services and Research. 2022 Research Computing Expo. Arizona State University, August 2, 2022.

74) **Ding-Geng Chen** (2022). Statistical Joint Modeling in Integrative Data Harmonization. International Symposium of Biostatistics and Machine-Learning, University of Pretoria, July 26, 2022.

75) **Chen, D. G.** and Singini, I. L. (2022). Latent-Class Joint-Model and Shared-Parameter Joint-Model with Influence Diagnostics for Longitudinal and Survival Data from a multi-center clinical trial. ICSA 2022 China Conference. Xian, China, July 3rd, 2022 (Virtual due to COVID)

76) **Chen, D. G.** (2022). Joint modeling for longitudinal and interval censored survival data, Invited Sessions 4C: New fronts in joint modeling and machine learning. International Chinese Statistical Association, Applied Statistical Symposium. University of Florida, Gainesville, Monday, Jun 20, 2022.

77) **Chen, D.G.** (2022). Cusp Catastrophe Modeling and its Bayesian Computation. Arizona State University, SoMASS Statistics Seminar, April 22, 2022

78) **Chen, D.G.** (2022). Big-Data Analysis v.s. Meta-Analysis. Department of Epidemiology and Biostatistics, University of Arizona, January 26, 2022.

79) **Chen, D.G.** (2022). Integrative Data harmonization with Bayesian Modeling in Evidence-Based Health Intervention Research. College of Health Solutions, Arizona State University, January 20, 2022. Zoom presentation

80) **Chen, D. G.** (2021). Statistical Meta-Analysis with Summary Statistics and Individual Patient-level Data. TRCC (Texas Regional CTSA Consortium) Quantitative Seminar Series. University of Texas Medical Branch (UTMB), Preventive Medicine and Population Health-Office of

Biostatistics, October 26, 2021.

81) **Chen, D. G.** (2020). Meta-Analysis and the related research. University of North Carolina-Greensboro, Department of Mathematics and Statistics. September 30, 2020. (zoom due to COVID-19)

82) **Chen, D. G.** (2020). Meta-Analysis in Evidence-based Public Health Research. Division of Epidemiology and Biostatistics, Faculty of Medicine and Health Sciences, Stellenbosch University, Cape Town, South Africa. May 26, 2020. (zoom due to COVID-19)

83) **Chen, D**. & Chen, X. (2020) - Cusp Catastrophe Modeling in Social Behavioral Research: Method Development and Analysis, Feb 25, 2020. The 23rd Annual American Association of Behavioral and Social Sciences Conference, Las Vegas.

84) Chen, X. & **Chen, D.** - Examine Binge Drinking Behavior among U.S. Adolescents Using a Newly Established Cusp Catastrophe Modeling Method, Feb 24, 2020. The 23rd Annual American Association of Behavioral and Social Sciences Conference, Las Vegas.

85) **Chen, D. G.**, Ansong, D., Brevard, K., Okumu, M and Testa, M. (2020) Evidence building and information accumulation: Bayesian paradigm cohesive for child welfare intervention research. Society of Social Work Research annual conference. Jan 19, 2020, Washington, D.C.

86) **Chen, D. G.** Homoscedasticity in the Accelerated Failure Time Model. International Conference on Statistical Distributions and Applications. Grand Rapids, MI, USA, October 12, 2019.

87) **Chen, D. G.** A statistical distribution for simultaneously modeling skewness, kurtosis and bimodality. International Conference on Statistical Distributions and Applications. Grand Rapids, MI, USA, October 11, 2019.

88) **Chen, D.G**. A homogeneity in the accelerated failure time model. ICSA Applied Statistics Symposium, Raleigh NC, June 10, 2019

89) **Chen, D.G.** Statistical Meta-Analysis and its Efficiency, The School of Mathematics, Statistics and Computer Science, University of KwaZulu-Natal, South Africa, May 21, 2019.

90) **Chen, D.G.** A Homogeneity Test and Weighted Least-Squares Method for Right-Censored Data in Accelerated Failure Time Model. Department of Applied Mathematics. The Hong Kong Polytechnic University, May 8, 2019.

91) Hou, J., Daw, R., He, C., **Chen, D.G.** and Sun, D. (2019). Bayesian CUSP Catastrophe Model for Sudden Changes. Statistical and Applied Mathematical Sciences Institute (SAMSI), USA, Feb 28, 2019. (**Abstract**: The cusp catastrophe model uses a discontinuous nonlinear function

to model and predict sudden changes. Due to the complexity of the discontinuous nonlinear relationship, there are issues in fitting the statistical cusp regression model and the gradient-based optimization methods do not work anymore. To fill the gap, we have developed a Bayesian method for the cusp regression model and the posterior mean is used to obtain estimates of the parameters. Furthermore, the partial swarm optimization algorithm is incorporated to speed up the convergence of the Markov chain Monte Carlo algorithm. Extensive simulation studies showed that the Bayesian method yielded a better parameter estimate than those form both the maximal likelihood estimation and the traditional stochastic differential equations method under the Maxwell convention)

92) **Chen, D. G**. and Lio, YL (2018). A Novel Generalized Rayleigh-Exponential-Weibull Distributions and its Application to Model Progressively Type-I Interval-Censored Data. 11th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2018), University of Pisa, Italy, 14-16 December 2018.
93) **Chen, D. G**. (2018). Meta-Analysis Using Summary Statistics and Individual Participant-level Data. Department of Statistical Science, Cornell University, USA, October 17, 2018.
94) **Chen, D. G**. (2018). Data fusion with meta-Analysis. Statistical and Applied Mathematical Sciences Institute (SAMSI), USA, October 9, 2018.
95) **Chen, D. G**. (2018). Relative efficiency of using summary and individual data in meta-analysis. Department of Mathematics and Statistics, University of Maryland Baltimore County, USA, October 5, 2018.
96) **Chen, D. G**. (2018). Bayesian in Intervention Research. Behavioral & Integrative Neuroscience Quantitative Forum. University of North Carolina- Chapel Hill. October 1.
97) **Chen, D. G**. (2018). Statistical Meta-analysis and its efficiency. Department of Public Health, Central South University, Changsha, China, June 1, 2018.
98) **Chen, D. G**. (2018). Public health research and Meta-analysis. School of Public Health, Faculty of Health Sciences, University of Wits, South Africa, May 18, 2018.
99) **Chen, D. G**. (2017). Cusp Catastrophe Regression Model and Its Applications. Department of Statistics, University of South Carolina. November 9.
100) **Chen, D. G**. (2017). From Study Design to Statistical Analysis: A Bayesian Perspective on Intervention Research. Department of Biostatistics and Department of Epidemiology, University of Florida, Nov 2.

101) **Chen, D. G**. (2017). Cusp Catastrophe Regression Model and Its Applications. Behavioral & Integrative Neuroscience Quantitative Forum. University of North Carolina- Chapel Hill. September 18.

102) **Chen, D. G.** and Ansong, D. (2017) Bayesian Spatial-Temporal Modeling of HIV Risk among Adolescents in Africa. 61st World Statistics Congress - ISI2017 (www.isi2017.org). July 16-21, 2017.

103) **Chen, D. G.** and Chen, X. (2017). Cusp Catastrophe Linear Regression Model and its Applications. International Conference on Econometrics and Statistics. Hong Kong. June 15-17, 2017

104) **Chen, D.** G., Wu, S. Wu, Q. (2016). Introducing Missing Data Analysis in Social Work Research. Society of Social Work and Research Annual Conference, Jan 14, 2017, New Orleans, Symposium.

105) **Chen, D. G.** and Fraser, M. (2016). Bayesian Intervention Research. Society of Social Work and Research Annual Conference, Jan 14, 2017, New Orleans, Symposium.

106) **Chen, D. G.** and Chen, X. (2016). Cusp Catastrophe Model and its Application in Public Health Behavior Research. 4th International Symposium on Biostatistics, International Biometric Society-China, Shanghai, July 2, 2016.

107) **Chen, D. G.** and Chen, X. (2016). Cusp Catastrophe model and its applications. University of KwaZulu-Natal, South Africa. December 5, 2016

108) **Chen, D. G**. (2016) R for meta-analysis and network meta-analysis. 23RD Annual Biopharmaceutical Applied Statistics Symposium(BASS), Rockville, Maryland, October 24, 2016.

109) **Chen, D. G.,** Chen, X. amd Zhang, K.(2016) An Exploratory Statistical Cusp Catastrophe Model. 2016 IEEE International Conference on Data Science and Advanced Analytics. Montreal, Canada. October 17, 2016.

110) **Chen, D. G**. (2016). Meta-Analysis Using R. Session on Data Synthesis and Meta-Analysis. Conference on Statistical Practice, American Statistical Association. San Diego. Feb 20, 2016.

111) **Chen, D. G**. (2015) "Interval-Censored Time-to-Event Data: Parametric, Nonparametric, Semi-Parametric Survival Data Analysis". Mini-plenary at 57th South Africa Statistical Association annual meeting, University of Pretoria (Dec 1, 2015)

112) **Chen, D. G**. (2015) "Big-data Perspectives in Biostatistics and Bioinformatics". Big-Data Summit, University of Pretoria, South Africa (Nov 28, 2015)

113) Chen, X. and **Chen, D. G**. (2015). "Theory-supported cusp catastrophe modeling in analyzing public health data", American Public Health Association Annual Conference Chicago, IL. USA. Nov 2, 2015.

114) **Chen, D. G.** (2014). Meta-Analysis with R. Department of Statistics, Kansas State University. December 4, 2014.

115) **Chen, D. G**., Chen, X and Tang, W. (2014). Sample Size Determination for stochastic cusp catastrophe model: a simulation-based approach. 2014 American Public Health Association, Invited session "Modelling Social Behavior", 11/19/2014.

116) **Chen, D. G**. (2014). Meta-analysis for public health data. SON Research and Innovation Grand Rounds, University of Rochester Medical Center. 10/29/2014. Wed 12:00-13:00pm.

117) **Chen, D. G**. (2014). Meta-analysis with summary statistics vs. meta-analysis with individual patient-level data. Department of Mathematics and Statistics, University of Guelph. 10/28/2014, Tuesday 2:30-3:30pm.

118) (Invited Discussant). **Chen, D. G**. (2014). "Model the Structural Zeroes in Mental Health Research". 2014 JSM, August 5, 2014.

119) **Chen, D. G. (2014).** Big data and meta-analysis using R. Department of Statistics, University of Pretoria, South Africa, Monday, May 5, 2014.

120) **Chen, D. G.,** Chen, X., Tang, W. and Lin, F. (2014) Sample size determination to detect cusp catastrophe model: a Monte-Carlo simulation approach. The 2014 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP), Washington, DC, 4/2-4/4, 2014

121) **Chen, D. G.**, Dungang Liu and Heping Zhang (August 7, 2013). Relative efficiency for random-effects meta-analysis using summary statistics and individual patient data. 2013 Joint Statistical Meeting, Montreal, Canada

122) Chen, D. G. (2012) Issues on Factorial Experimental Design. Tianjin International Joint Academy of Biotechnology and Medicine, China. July 11, 2012

123) Chen, D. G. (2012) ROC and Diagnostics. Tianjin International Joint Academy of Biotechnology and Medicine, China. July 10, 2012

124) Chen, D. G. (2012) Stock Assessment Modelling using State-of-art software R. Shanghai Fishery University, China. July 6, 2012

125) Chen, D. G. (2012) Statistical Computing using R. Guangzhou University, China. July 4, 2012

126) Chen, D. G. (2012) Bayesian Modelling. Guangzhou University, China. July 3, 2012

127) **Chen, D. G**. (2007) Hybrid Global Genetics Algorithms with Quasi-Newton Methods for Neural Network Models. EcoSummit 2007.

Other Presentations

128) **Chen, D. G.,** Seltzer, R. Kurka, J. Acciai, F. (2022). How to Reshape Longitudinal Data Using… REDCap, SAS, R, Stata and SPSS, Wednesday, Oct. 26, 2022. College of Health Solutions, Arizona State University.

129) **Chen, D. G.,** Seltzer, R. Kurka, J. Acciai, F. (2022). How to Do Longitudinal Data Analysis Using… REDCap, SAS, R, Stata and SPSS, Wednesday, Nov. 30, 2022. College of Health Solutions, Arizona State University.

130) **Chen, D. G.,** Seltzer, R. Kurka, J. Acciai, F. (2022). How to Do Power Calculations and Sample Size Determinations, Wednesday, Sept. 28, 2022. College of Health Solutions, Arizona State University.

131) Thasmika Mohan, Najmeh Nakhaei Rad, **D. G. Chen** (2022). A MÖBIUS-TRANSFORMED TOROIDAL DISTRIBUTION FOR DIHEDRAL ANGLES MODELLING IN PROTEIN STRUCTURE, South Africa Statistical Association, Nov 29, 2022. Georgia, South Africa.

132) I. Singini, **D. Chen**, F. Gumedze (2022). Latent Class Joint Model for Longitudinal and Survival Data: an alternative to influence diagnostics for shared parameter joint model. South Africa Statistical Association, Nov 29, 2022. Georgia, South Africa.

133) Iketle Maharela, **Ding-Geng Chen**, LizelleFletcher (2022). Modelling Non-Homogeneous Censored Time-to-Event Data using Semiparametric Accelerated Failure Time Model: Simulation and Applications. International Symposium of Biostatistics and Machine-Learning, University of Pretoria, July 27, 2022.

134) Christine Kraamwinkel, Inger Fabris-Rotelli, Rian Botes, Kabelo Mahloromela, **Ding-Geng Chen** (2021). On the use of Voronoi tessellations for detection of spatial inhomogeneity in regular spatial point patterns. South Africa Statistical Association annual conference, December 2, 2021.

135) Ren´e Stander*, IN Fabris-Rotelli, **D.G. Chen**, and G Breetzke (2021). Multiscale decomposition of spatial lattice data for feature detection. South Africa Statistical Association annual conference, December 3, 2021.

136) Mohadeseh Shojaei Shahrokhabadi, **Ding-Geng (Din) Chen** (2021), Marginalized Two-Part Joint Models for Generalized Gamma Family of Distribution. South Africa Statistical Association annual conference, December 3, 2021.

137) Isaac Singini, **Ding-Geng (Din) Chen**, Freedom Gumedze, (2021). Latent Class Joint Model for Longitudinal and Survival Data: an alternative to in influence diagnostics for shared parameter joint model. South Africa Statistical Association annual conference, December 3, 2021.

138) Brevard, K., Ansong, D., Testa, M. and **Chen, D. G. (**2020) Evaluation of the Illinois Birth through three IV-E Waiver demonstration: the impact of a trauma-informed parenting intervention on child permanency outcomes. Society of Social Work Research annual conference. Jan 17, 2020, Washington, D.C.

139) Miller V, **Chen, D. G**, Barrett D, Ohrbach R, Slade G (2019). Exploring the relationship between factors associated with pain-related disability in people with painful TMD: a structural equation modeling approach. Society for Epidemiologic Research Annual Meeting, Minneapolis, MN June 18-21 2019.

140) Chen, X., **Chen, D. G.** and Lan, G. (2015). Identify Non-identifiable Markov-Based Systems for Studying the Dynamics of Adolescent Marijuana Use with Cross-Sectional Data. The 25th Annual International Conference, the Society for Chaos Theory in Psychology and Life Sciences, July 29-31, 2015, Gainesville, Florida

141) Quinn, J.R., Friedman, M., Stein, K.F., Tucker, R., & **Chen, D. G**. (2014, September). Family Caregivers' Perceptions of Patients' Health Status and Time to Hospitalization for Decompensating Heart Failure. Poster presentation at the 2014 State of the Science Congress on Nursing Research,

142) Wilde, M., McMahon, J., McDonald, M., Tang, W., Wang, W. Brasch, J., Fairbanks, E., Shah, S., Zhang, F., **Chen, D. G. (**2014, June). Self-management in long - term urinary catheter users. Paper presented at WOCN Society's 46th Annual Conference, Nashville, TN.

143) Zhang, F., Wilde, M.H., **Chen, D. G.,** Wang, W., & Tang, W.(2014). Symptoms of catheter-associated urinary tract infections (CAUTI) in long-term indwelling urinary catheter users. Poster presented at the 2014 ENRS conference, Philadelphia, PA

144) Stein, K., Corte, C. and **Chen, D. G.** Identity Impairment: The Coginitive Foundation of Disordered Eating and Weight Control Behaviors (DEWCB) in Mexican American Women (MA). The 26th Eastern Nursing Research Society, 4/9-4/11, 2014. Philadelphia, PA.

145) Quinn, J. Friedman, M. Stein, K., Tucker, R. and Chen, DG. Family Caregivers' Perception of Patients' Health Status and Time to Hospitalization for Decompensating Heart Failure. The 26th Eastern Nursing Research Society, 4/9-4/11, 2014. Philadelphia, PA.

146) Chen, X. and **Chen, D. G.** Mutual information technique in assessing crosstalk through a random-pairing bootstrap method. The 2014 International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP), Washington, DC, 4/2-4/4, 2014

147) Quinn, J.R., Stein, K.F., Friedman, M.N., Chen, L., Tucker, R., & **Chen, D.G.** (2013) Recognition of Worsening heart failure and care-seeking by chronic heart failure patients prior to hospitalization. Poster presentation at the Council for the Advancement of Nursing Science (CANS) Conference, Washington, DC, October 16, 2013.

148) Nakai, N., **Chen, DG.,** Nishimura, K.,Miyamoto, Y. (August 7, 2013). Comparative Study of Four Methods in Missing Value Imputations with Dropouts from Longitudinal Studies. 2013 Joint Statistical Meeting, Montreal, Canada

149) Xie, C., Lu, X., **Chen, DG**., Singh, RS. (August 7, 2013). Effect of Misspecified Correlations in Parametric Multiple Testing. 2013 Joint Statistical Meeting, Montreal, Canada.

150) **Chen, DG**. Chen, X and Lin, F. (July 26, 2013). Statistical Power Analysis for the Polynomial Cusp Catastrophe Model: A Simulation-Based Approach. 23nd Annual Conference for Society for Chaos Theory in Psychology and Life Sciences, Portland, OR.

151) Jill R. Quinn, Karen F. Stein, Maureen Friedman, Leway Chen, Rebecca Tucker, **Ding-Geng Chen** (2013). Recognition of Worsening Heart Failure and Care Seeking by Chronic Heart Failure Patients Prior to Hospitalization. COUNCIL FOR THE ADVANCEMENT OF NURSING SCIENCE 2013, July 2013.

152) **D. G. Chen**. (Contributed Presentation) Interval-censored time-to-event data analysis. International Biometric Conference, Kobe, Japan, 8/30/2012

153) Quinn, J.R., Chen, L., Brasch, J., Smith, J.A., Tucker, R., & **Chen, D.G**. (September 2011). Symptom Recognition and Decision to Seek Care by Both Chronic Heart Failure Patients and Their Family Caregivers/Significant Others Prior to Hospitalization. Poster presentation. 15th Annual Scientific Meeting Heart Failure Society of America. Boston, MA.

154) Jill R. Quinn, Rebecca Tucker, Leway Chen, Judy Brasch, Joyce A. Smith, **Ding-Geng Chen**. Comparing Perceptions of Chronic Heart Failure Patients' Health Status Prior to Hospitalization by Patients and Their Family Caregiver/Significant Others. "*Quality Care and Outcomes Research in Cardiovascular Disease and Stroke 2011 Scientific Sessions", Washington, D.C. May 12-14, 2011*

155) **Chen, Ding-Geng**, Yu, Lili and Lio, Y.L. Fractional Polynomials in Analyzing Interval-Censored Time-to-Event Data. Joint Statistical Meetings, American Statistical Association. Miami Beach, FL, July 30-August 4.

156) Lio, Y.L. and **Chen, Ding-Geng**. Simulation Study for the estimations of Generalized Rayleigh Parameters under Progressive type-I Interval Censoring. Joint Statistical Meetings, American Statistical Association. Miami Beach, FL, 7/30-8/4.

157) Samir S. Deeb, Darren Bisset, **Ding-Geng Chen**, Maria N. Pavlova. Regulation of Retinal Gene Expression by Thyroid Hormone and it Receptors During Mouse Development**.** *The Association for Research in Vision and Ophthalmology(ARVO). Fort Lauderdale, FL,* May 1, 2011.

158) Sutton, Fedora, Karki, Amrit and **Chen, Ding-Geng**, Microarray data analysis using Sparse Principal Component Analysis (SPCA). The 7th International Conference on Data Mining July 18-21, 2011 Las Vegas, USA.

159) Xueshui Guo, **D. G. Chen**, Artur J.M. Rosa, Xiuqing Wang (Oct 20-21, 2006). Kinetics of local gene transcription profiles during the development of mucosal immunity using avian infectious bronchitis virus as a model system. American Society for Microbiology 66th Annual meeting.

160) Sajjad, I. and **Chen, D. G**., Raul Jindal and John Ryan. Hemodialysis Access: a systematic review of outcomes. The 10th Biennial symposium on dialysis access. May 18-19, 2006, Arizona.

161) Miller, R., **Chen, D. G**,. Bottolfson, D. and Ryan, J. J. Carotid Endarterectomy Outcomes in a Medium-Sized Veterans Affairs Hospital Setting. American College of Surgery.

162) Shmagin, B. and **Chen, D**. Understanding and mapping water resources by multidimensional statistics and fuzzy logic: Missouri River basin case. 2006 Western SD Hydrology Conference April 18, 2006, Rushmore Plaza Civic Center – Rapid City, South Dakota.

163) J.G. Pounds, PL Pokorski, **D.G. Chen**, M Mumtaz: Target Organ Variability in the Toxicity of Chemical Mixtures. The Toxicologist, 54;2000.

164) Pounds, J., P. L. Pokorski, **D. G. Chen** and M. Mumtaz (2000). Target Organ Variability in the Toxicity of Chemical Mixtures. Toxicological Sciences 49(1S)

165) Pounds, J., **DG Chen**, and M Mumtaz (1998). Importance of model fitting in the Assessment of Chemical Mixtures. Toxicological Sciences 47(1S):1543A.

166) **DG Chen** and JG Pounds (1998). Analysis of Chemical Mixtures by Non-linear Isobologram

Model with Box-Cox Transformation-to-both-sides for Chemical Mixtures. Toxicological Sciences 47(1S):1687A

167) Hadir J, **Chen, D**, M Mumtaz, and Pounds JG.(1996). Model-dependent cytotoxic interactions of Metals. Toxicologist: 17:40a.

168) Haider, J., **Chen, D. G**. and Pounds, J. G. (1996). Model-Dependent Cytotoxic Responses to Defined Chemical Mixtures of Metals. Fundamental and Applied Toxicology 30(1):40a

8. RESEARCH GRANTS AND CONTRACTS

Active Research Projects:

1) (Department of Health and Human Services, National Institute of Health PI: Dr. Mindy McEntee). Arizona State University Community Health Worker Training Program (ASU CHWTP). HRSA to support the development and launch of a Community Health Worker Training Program (CHW-TP) to improve services for medically underserved populations in Arizona to develop an online training program paired with local internship and apprenticeship opportunities at community partner sites for 200 learners. 9/15/2022 to 9/14/2025, Total $2,999,934.

   Role: Co-I/Data Core Director (FTE 11.25%-Year 1, 20%-Year 2, 25%-Year 3)

2) (NIH, PI, Chad Stecher) StandUPTV Habits: Feasibility trial for maintaining reductions in sedentary screen time. 9/5/2023 to 9/4/2026. Total $896,736

   Role: Co-I (FTE 0.36 calendar months in year 3)

3) (Department of Health and Human Services: National Institutes of Health, PI: Dr. Ayoub Daliri). Development of an optimized intervention for caregivers to prevent substance use in children with incarcerated parents. 1/1/2023 to 12/31/2027, Total $3,383,859.

   Role: Co-I (FTE 0.6 month per year)

Completed Research Projects:

4) (American Health Law Association) Health Law Association Salary Survey design and Implementation. $10,000(Contract), 05/01/2022-05/01/2023.

   Role: PI

5) (Arizona State University, Co-PIs: Shannon D. R. Ringenbach and Ding-Geng Chen). Modified Assisted Cycle Therapy (ACT) for Young Children with Down syndrome: Pilot data. $17,900. 05/01/2022-04/30/2023.

Role: Co-PI

6) (South Africa Department of Science and Technology and National Research Foundation, **PI: Chen**). South Africa Research Chair Initiative (SARChl) Research Chair in Biostatistics (Tier 1), R13,400,000 (South Africa Rand) ($1,112,200 equivalent)

Role: PI and Chair Holder. January 1, 2018 to December 31, 2022.

7) (Illinois Department of Children and Family Service, PI: Ansong) Family First Prevention Services Evaluation, #1005709016. ($546,563). This study is testing the impact of several promising evidence-based interventions (as rated by the Title IV-E Prevention Services Clearinghouse) on child safety, permanency, and well-being of children at risk of foster care placement in the state of Illinois. Participants: The study is targeting children at risk of entering foster care, pregnant current or former foster youth, children recently reunified, and children in adoptive or guardianship arrangements. Procedures (methods): The study is using a quasi-experimental design to evaluate the effectiveness of the promising interventions on child welfare outcomes.

Role: Co-I/ Biostatistician. 7/2020-6/2022.

8) (U.S. Department of Justice, PI: Cuddeback) Reducing recidivism and improving outcomes among probationers with mental illnesses: combining mental health probation with supported employment. Office of Justice Programs. Amount: $740,693 (2019-2022).

Role: Co-I/Biostatistician (10%).

9) (North Carolina Department of Public Safety, PI: Cuddeback) Assessing the Reliability and Validity of the North Carolina Department of Public Safety Risk and Needs Assessment for Offenders. 01/21/21-12/31/21, Total funding $149,334.

Role: Co-I/Biostatistician (16.5%).

10) (Illinois Department of Children and Family Service, PI: Ansong) Illinois Birth through Three Title IV-E Waiver: Child and Family Intervention IB3. 07/01/2018-06/30/2020. Total Amount: $1,071,692.

Role: Co-I/Biostatistician, 16.5% for 08/01/2018 to 07/31/202019 and 33% for 08/01/2019 to 07/31/2020.

11) (North Carolina Department of Public Safety, PI: Cuddeback) Specialty Mental Health Probation: A Randomized Controlled Trial. Bureau of Justice Assistance GMS Award 2015-SM-BX-0004 (through a subcontract with the North Carolina Department of Public Safety). Total Amount: $670,000 (2016 – 2019).

Role: Co-I/Biostatistician (5%)

12) (NIMHD 1R21MD012687, PI: Hall). Implicit Internalized Stigma: Measuring and Examining a Determinant of Mental Health Disparities for Sexual Minorities. 8/1/2018-3/31/2020. $422,799. (This project has three aims: (1) Creating an implicit internalized sexual minority stigma instrument using an Affect Misattribution Procedure (AMP) approach; (2) Evaluating the reliability (internal consistency and test-retest reliability) and validity (convergent, discriminant, and predictive validity) of the implicit internalized sexual minority stigma version of the AMP; and (3) Examining concurrent and predictive relationships between implicit internalized sexual minority stigma and outcomes of depressive symptoms and anxiety).

Role: Co-I/biostatistician.

13) (NIMH, 1R34MH111855. PI: Wilson). Improving Mental Health Services for Prisoners with Mental Illness. Amount: $1,063,042 (12/1/2017-3/30/2020). The focus of this three-year study is on developing an intervention to improve behavioral health and criminal justice outcomes among persons with serious mental illnesses who are involved in the criminal justice system.

Role. Co-I/Biostatistician.

14) (NIH, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), R01HD075635. Multi-PI: Chen, X.-University of Florida and Chen, D.-University of North Carolina at Chapel Hill) Modeling quantum change in adolescent sexual initiation and condom use (with a cusp catastrophe model development). $ 1,728,486, 07/1/2013-04/31/2019.

Role: Multi-PI (Methodology).

15) (NIH/NINR 1R01NR015452-01A1. PI: Lin) Neurophysiological Aspects of Vision-based Speed of Processing Cognitive Training in Older Adults with Mild Cognitive Impairment. 9/5/2015-7/31/2019, $2,008,192.

Role: Co-I/Biostatistician.

16) (NIH/NINR R01 NR014451-01A1, PI, Rhee). Peer-Led Asthma Self-Management Program for Adolescents (PLASMA): A Multi-site randomized controlled study to implement and evaluate a peer-led asthma self-management for adolescents (PLASMA) program. 9/15/2014-6/30/2019, $3,596,217.

Role: Co-I/Biostatistician

17) (National Institute of Mental Health, NCPO10370922, PI Cuddeback). Aligning supervision strategies for individuals in need of services and treatment (NC-ASSIST). 3/1/2016-2/28/2019. $314,222. NC ASSIST will integrate the following smart supervision strategies within specialty

mental health probation (SMHP) in six North Carolina counties: (1) alignment of service plans with risk and needs assessment (RNA) results; (2) training officers to use smart supervision strategies; (3) using graduated incentives and sanctions; (4) engaging SMHP officers in performance-driven personnel practices (i.e., skill-based training, motivational interviewing with audiotaping, supervision and feedback, mental health supervision and coaching); (5) training officers in dual diagnosis motivational interviewing (DDMI), which is an innovative, evidence-based adaptation to motivational interviewing (MI) that focuses on developing motivation through a client-centered approach to problem-solving; and (6) expanding SMHP's intervention capacity through the community-capacity building, cross-system training, and information sharing).

Role: Co-I/Biostatistician.

18) (U.S. Department of Health and Human Services under a subcontract with Westat, Inc., PI: Testa) Kansas Intensive Permanency Program (Permanency Innovations Initiative Evaluation). 07/01/2017-06/30/2018. $712,363.

Role: Co-I/Biostatistician

19) (National Council of State Boards of Nursing, PI: Ying) Impact of State Scope-of-Practice Regulation on the Availability of Nurse Practitioners in Caring for Vulnerable Populations" $300k, 1/2015-1/2017.

Role: Co-I/Biostatistician.

20) (PI: Chen): Causal Inferences for Zero-Inflated Models in Health Promotion/Health Behavior Outcomes Research. Faculty Research Support Grants, University of Rochester. 7/1/2013-6/30/2014. $9,965

21) (PI: Flannery) Lung Cancer: Structured Pain/Symptom Assessment for functional Well-Being. Oncology Nursing Society. The purpose of this pilot project is to examine the feasibility of a study designed to test the efficacy of a structured pain and symptom assessment as a telephone-delivered intervention to reduce distress and improve wellbeing.

Biostatistician. 7/2012 to 6/2014. Co-I/Biostatistician.

22) NIH (1 R01 DA021624-02, Olds, D.) Visiting Intervention Age-17 Follow-up of Home. This study is a longitudinal follow-up of 670 primarily African-American women and their 17-year-old firstborn children enrolled since 1990 in a highly significant randomized controlled trial (RCT) of prenatal and infancy home visiting by nurses. Nurses in this program are charged with

improving pregnancy outcomes, child health and development, and maternal economic self-sufficiency. 04/01/08-02/28/14, $1,144,772, Co-I/Biostatistician.

23) (Deebs, PI and Chen, Co-PI). Molecular Genetics of Color Vision. NIH. $1,960,455. 07/2008-07/2011. Co-PI.

24) (PI: Pesis-Katz). FAIR Health Inc. Upstate Health Research Network. "Examining the Association between Quality of Care information in the NYS Cardiac Surgery Reports and Negotiated Prices with Insurance Plans". 1/1/2011 to 6/30/2011. (Biostatistician)

25) (Eid, PI and Chen, Co-PI). Functional Status of Vitamin D in Patient with Statin Related Myopathy, $54,000. Department of Veterans Affairs. 1/2008-12/2008.

26) Chen (PI). Developing a Nonlinear Random-Effect Model for Limits of Detection and Limits of Quantitation in Agricultural/Environmental Measurements, USDA. 10/01/2008 to 09/31/2009. $20,000.

27) Stein (PI) and Chen(Biostatistician). Synoptic weather forecasting and web-based information delivery systems for managing crop disease risk in multiple regions of the U.S.". USDA. $1,180,115. 07/2008-12/2009.

28) Chen (contract PI) A randomized, double-blind, placebo-controlled, parallel-group study to evaluate the effect of 500mg EpiCor™ on allergy symptoms. Biostatistician, $190,000. Embria Health Inc. 03/01/2008-12/31/2008.

29) Chen (PI). Developing a mixed statistical model and a full Bayesian integrated approach to identify the differentially expressed genes in non-replicated/small-sample microarray experiment. $70,494, SD Governor's 2010 Individual Research Grant. 08/07-08/08.

30) Gonzalez (PI), Chen (Co-PI). Metabolomics and Functional Genomics of Seed Lipid Biosynthesis in Cuphea. USDA. $20,000. 11/06-11/08.

31) Chen. NSF/EPSCoR Rushmore Initiative for Excellence in Research, $13,750. 08/2005 to 08/2006

32) Pounds and Chen. "Identification and Characterization of toxicant interactions". for Toxic Substances and Disease Registry. $90,203(US), Biostatistician. May 1995 to May 1999.

Statistical Consulting Projects:

33) ATI-450-RA-202: A Phase 2b, Randomized, Multicenter, Double-blind, Parallel Group, Placebo Controlled, Dose Ranging Study to Investigate the Efficacy, Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of Multiple Doses of ATI-450 Plus Methotrexate

(MTX) Versus Placebo Plus MTX in Patients with Moderate to Severe Active Rheumatoid Arthritis (RA) who have had an Inadequate Response to MTX Alone. IQVIA/Aclaris Therapeutics, Inc. DSMB Biostatistician. From September 24, 2021.

34) TAK-755-2001: A Phase 2b, multicenter, randomized, double-blind study of safety and efficacy of TAK-755 (rADAMTS13) with minimal to no plasma exchange (PEX) in the treatment of immune-mediated thrombotic thrombocytopenic purpura (iTTP). From Jan 6 2023 to Jan 5, 2026.

35) TAK-755-3002: A Phase 3b, prospective, open-label, multicenter, single treatment arm, continuation study of the safety and efficacy of TAK-755 (rADAMTS-13, also known as BAX 930/SHP655) in the prophylactic and on-demand treatment of subjects with severe congenital thrombotic thrombocytopenic purpura (cTTP; Upshaw-Schulman Syndrome, or hereditary thrombotic thrombocytopenic purpura). IQVIA/Takada. DMC Biostatistician. From October 9, 2021.

36) INZ701-101: A Phase 1/2, Open-Label, Multiple Ascending Dose Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of INZ-701 Followed by an Open-Label Long-Term Extension Period in Adults with ENPP1 Deficiency. IQVIA/Inozyme Pharma, Inc. Boston, MA USA. DMC Biostatistician. From Sept 7 2021.

37) INZ701-201: A Phase 1/2, Open-Label, Multiple Ascending Dose Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of INZ-701 Followed by an Open-Label Long-Term Extension Period in Adults with ENPP1 Deficiency. IQVIA/Inozyme Pharma, Inc. Boston, MA USA. DMC Biostatistician. From Sept 7 2021.

38) aTTP-2019-5881: A Phase II CT on Acquired thrombotic thrombocytopenic purpura (aTTP). IQVIA/Takeda. DMC Biostatistician, From May 2019 to December 31, 2021.

39) cTTP-281102: A phase 3, prospective, randomized, controlled, open-label, multicenter, 2 period crossover study with a single arm continuation evaluating the safety and efficacy of BAX 930 (rADAMTS13) in the prophylactic and on-demand treatment of subjects with severe congenital thrombotic thrombocytopenic purpura (cTTP, Upshaw-Schulman Syndrome [USS], hereditary thrombotic thrombocytopenic purpura [hTTP]) (A phase 3, randomized controlled study of prophylactic and on-demand treatment of cTTP with BAX 930/SHP655 (rADAMTS13)). IQVIA/Takada, DMC Biostatistician. From 11/15 2019.

40) ATI-450-HS-201. A Phase 2a, Randomized, Double-blind, Placebo-controlled Study to Investigate the Efficacy, Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of

ATI-450 vs Placebo in Patients with Moderate to Severe Hidradenitis Suppurativa (HS). IQVIA/Aclaris Therapeutics, Inc. DSMB Biostatistician. From Nov 24, 2021 to Jan 2023.

41) SHP-616-302: A randomized double-blind placebo-controlled study to evaluate the efficacy and safety of Cinryze® (C1 esterase inhibitor [human]) for the treatment of acute antibody-mediated rejection in kidney transplant patients. PPD/Shire ViroPharma, Inc. DMC Biostatistician. April 2015 to December 31, 2020.
42) SHP-626-201: A Phase 2 Double-Blind, Randomized, Placebo-controlled, Dose-finding Study to Evaluate the Safety, Tolerability, and Efficacy of Volixibat Potassium, an Apical Sodium-Dependent Bile Acid Transporter Inhibitor (ASBTi) in Adults with Nonalcoholic Steatohepatitis (NASH). ICON/Shire Human Genetic Therapics, Inc. DMC Biostatistician. June 2016 to June 2020.
43) BAX-930: A phase 3, prospective, open-label, multicenter, two-arm, two-period study evaluating the safety and efficacy of BAX 930 (rADAMTS13) in the prophylactic and on-demand treatment of subjects with severe hereditary thrombotic thrombocytopenic purpura (hTTP) (Upshaw-Schulman Syndrome). Quintles. From March 2, 2017 to March 1, 2021.
44) Prospective, open-label trial to evaluate efficacy of lyophilized fecal microbiota transplantation for treatment of recurrent C. difficile infection: Phase II Study. Vancouver Island Health Authority and Royal Jubilee Hospital. DMC Biostatistician. October 2017 to July 2020.
45) A clinical trial with 12-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate The Effect Of A 500 mg Daily Dose Of Epicor™ On The Common Cold Or Influenza. In Subjects Who Have Not Received Influenza Vaccination Compared To Subjects Who Have Received Influenza Vaccination. Avera McKennan Hospital and University Health Center, SD. DMC Biostatistician. September 2006 to August 2009.
46) A phase 3, randomized controlled study of prophylactic and on-demand treatment of cTTP with BAX 930/SHP655 (rADAMTS13). QuintileIMS, Expert DMC member. March 2017 to March 2021.
47) A randomized double-blind placebo-controlled study to evaluate the efficacy and safety of Cinryze® (C1 esterase inhibitor [human]) for the treatment of acute antibody-mediated rejection in kidney transplant patients. Shire ViroPharma, Inc. Expert DMC member. April 2015 to December 2020.
48) A Phase 2 Double-Blind, Randomized, Placebo-controlled, Dose-finding Study to Evaluate the Safety, Tolerability, and Efficacy of Volixibat Potassium, an Apical Sodium-Dependent Bile

Acid Transporter Inhibitor (ASBTi) in Adults with Nonalcoholic Steatohepatitis (NASH). Shire Human Genetic Therapics, Inc. June 2016 to June 2018.

49) Orthopaedic Institute, Sioux Falls, SD. Contract Biostatistician to support clinical trial design, data analysis and manuscript development. 2008 to 2011.

50) May, 2008 to May, 2010: Environmental Statistics Consultant. Develop a geo-spatial model to estimate the uncertainty of modeled carbon sequestration. EverGreen, Denver, CO.

51) September 2006 to December 2008, Biostatistics Consultant. Hematech Inc. (A division of Kirin Pharmaceutical), Sioux Falls, SD. This biostatistical consulting contract is to support HemaTech's research and operation to develop treatments for antibiotic-resistant infections or producing new drugs and human antibodies to help fight diseases.

52) September 2006 to August 2009: Biostatistics Consultant. Avera Research Institute, Avera McKennan Hospital and University Health Center, SD. This consulting contract is to support the Avera research for its clinical trials and biostatistical needs in all aspect. Projects completed with manuscripts published are:

   I. A clinical trial with 12-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate The Effect Of A 500 mg Daily Dose Of Epicor™ On The Common Cold Or Influenza. In Subjects Who Have Not Received Influenza Vaccination Compared To Subjects Who Have Received Influenza Vaccination. I designed and analyzed this trials and the manuscript is being written for publications. (Two papers are published)

   II. A 12-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study To Evaluate The Effect Of A 500 mg Daily Dose Of Epicor® On cold sore outbreaks.

   III. A 52-week research and monitoring project to support the study of the South Dakota School District Benefit Fund Optifast Outreach Research Study on weight-loss. The project is completed and a paper is published.

   IV. A retrospective review of medical records to compare the outcomes of the in-patients diagnosed with and infected bacterial wound, neutropenic fever or bacterial pneumonia and treated by an infectious disease specialist via tele-health versus a face-to-face manner. A paper is published.

53) Biostatistical analysis for a 12-Week, Randomized, Double-Blind, Placebo-Controlled clinical trial of modified yeast-based intervention (EpiCor) on the Incidence and Duration of Common Cold/flu-like symptom among healthy participants vaccinated for seasonal influenza. $7,000.

11/2007.

54) Power Analysis of the Choice of Primary Efficacy Variables and Baselines in Clinical Trials with Pre-dialysis Patients. Shire Pharmaceutical. $18,000. 05/2007-08/2007

55) Expert Reviewer for Southeast Data, Assessment and Review 9. New Orleans, Louisiana, $11,790, 03/2006

56) Expert Reviewer for Southeast Data, Assessment and Review 10. Atlanta, Georgia, Louisiana, $12,060, 06/2006

57) Expert Reviewer for Pacific hake/whiting stock assessment model. Seattle, WA, $11,935, 02/2007

58) Expert Reviewer for Alaska flatfish stock assessment model. Seattle, WA, $15,660, 06/2007

59) Morishima and Chen. Estimation of mean length at age and fishery harvest rate for CTC model. Pacific Salmon Commission. $45,500. May 2005 to Dec 2006

60) Morishima and Chen. Reformulation of algorithms for estimating fishery impacts using the CTC Chinook model. Pacific Salmon Commission. $54,500. May 2004 to April 2005

9. TEACHING ACTIVITIES

- **Arizona State University**

  1). HCD300: Biostatistics, Undergraduate (31 for West Campus Class and 41 for Downtown campus class), Fall 2022.

  2). HCD300: Biostatistics, Undergraduate (36 students), Spring 2022.

- **The University of North Carolina at Chapel Hill**

  1) SOWO 916: Structural Equation Modelling. Ph.D. Students
  Spring Semester of 2016 (6 students), 2017 (11 students), 2018(10 students), 2019(11 students), 2020(9 students)

  2) SOWO 917: Multilevel Modelling. Ph.D. students.
  Fall semester of 2015 (15 students), 2016 (10 students), 2017 (8 students), 2018 (12 students), 2019(13 students), 2020 (13 students).

- **University of Pretoria, South Africa**

  1) STK 880: Statistical Modelling and Computing. Master/Ph.D students (Fall 2017, 2018, 2019)

- **University of Rochester**
  1) NUR 544: "Advanced Biostatistics Data Analysis" for Ph.D. students to advanced clinical trial design and real data analysis (2012 Fall)
  2) NUR 511: Quantitative Methods (2013 Fall).

- **Georgia South University**
  1) BIOS 9130: Statistics Consulting for DrPH students (2009 Fall, 2010 Fall)
  2) BIOS 7535: Data Analysis Using SAS. 2010 Spring for MPH and DrPH students
  3) BIOS 9331: Meta-Analysis and Research Seminar. 2010 Fall for DrPH students

- **South Dakota State University**
  1) CSS (Computational Science and Statistics) 703: Statistical Modeling and Computing using R (2006 Fall; 2008 Fall, for Ph.D. students).
  2) CSS 890: Research Seminar (2005 Fall; 2008 Fall, for Ph.D. students).
  3) CSS 898: Optimization with Constraints (2007 Spring for Ph.D. students)
  4) Stat 787: Regression Analysis II (2009 Spring for both Ph.D. and MSc. students)
  5) Stat 792-S03: Linear Models (2005 Fall for both Ph.D. and MSc students)
  6) Stat 791: Adaptive Design in Clinical Trials (2008 Fall for Ph.D. students)
  7) Stat 492/592: Statistical Methods (2007 Spring and 2008 Spring for Ph.D. and MSc students; 2008 Summer for training medical directors and researchers at the Medical school)
  8) Stat 720: Bayesian Statistics (2007 Fall for Ph.D. students)
  9) MATH 592: Bioinformatics (2006 Fall for both undergraduate and graduate students)
  10) MATH 791: Genetic Algorithms and Optimization (2006 Fall for Ph.D. students)
  11) Stat 792: Statistics in Bioassay (2006 Spring for Ph.D. students)

10. PROFESSIONAL ACTIVITIES AND HONORS

Awards and Honors

1) 2014: "Award of Recognition" for significant contribution to the success for Deming Conferences. American Statistical Association/American Society of Quality/Deming Conference on Applied Statistics.
2) 2013: "Outstanding Leadership Award", American Public Health Association.

3) 2013: "Meritorious Lecture plaque", Biopharmaceutical Applied Statistics Symposium.

Editorial Activities

1) Chief Editor, Springer book series of "Emerging Topics in Statistics and Biostatistics" https://www.springer.com/series/16213 (2018-)
2) Chief Editor, Springer/ICSA Book Series in Statistics (http://www.springer.com/series/13402) (2014-)
3) Co-editor (with Professor Jeffrey Wilson), Johns Hopkins University Press Public Health Statistics Series Book Series (December 2016- December 2019)
4) Associate Editor, Journal of the Society for Social Work and Research (2018-
5) Associate Editor, Journal of Statistical Computation and Simulation (2009-2019)
6) Editorial Board member, Journal of Bioanalysis and Biostatistics (2016-2018)
7) Editor, SOJ Clinical Trials (2015-2018)
8) Editor Board of "International Journal of Ecological Informatics" (2004-2013)
9) Editorial Board, Biostatistics, Bioinformatics and Biomathematics (2009-2010)
10) Editorial Board, Advances and Applications in Statistical Sciences (2008-2009)
11) Editor, International Journal of Bulletin of Statistics and Economics (2006 - 2009)
12) Editor, International Journal of Ecology and Development (2004-2009)

Professional Activities

1) Publicity Chair, The 79th Annual Deming Conference on Applied Statistics. December 4 to December 8, 2023. https:///www.demingconference.org.
2) Session Moderator, The 79th Annual Deming Conference on Applied Statistics. December 6, 2023. https:///www.demingconference.org.
3) Session Organizer and Chair: Statistical power to Bayesian assurance in clinical trials. December 18, 2023. The 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023) will be hosted by HTW Berlin, University of Applied Sciences (Wilhelminenhof campus), Berlin, Germany. http://www.cmstatistics.org/CMStatistics2023/schedule_slot.php?slot=M.
4) Program Committee member, Dose Finding and Other Topics in Drug Development, June 8-9, 2023, at the Storrs campus of The University of Connecticut in honor of Dr. Naitee Ting's 70th birthday (https://events.stat.uconn.edu/drug-development/committees.html).

5) Committee member, publicity chair and moderator. 78th Deming Conference in Applied Statistics. December 5-9, 2022, Philadelphia.
6) Session Chair, Session EO741: Testing independence in high-dimensional statistics. 15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022), King's College London, December 18, 2022.
7) Co-organizer. International Symposium on Modern Biostatistics and Machine Learning. July 26 to 28, 2022. https://www.up.ac.za/statistics/article/3082879/biostatistics-symposium-july-2022
8) Scientific Committee member, 2022 Stata Conference, August 4-5, 2022. Washington, D. C. https://www.stata.com/meeting/us22/
9) Invited Session Chairs on 2019 ICSA Applied Statistics Symposium, Rayleigh, NC June 9-12, 2019, for "Session 33-Recent Advances in modern survival analysis and the novel application", "Session 41- Advances in Meta-analysis", "Session 69-Modelling and Inference for Complex Dependence in Large Datasets".
10) Chair-elect (2012), Chair (2013), Past-Chair (2014), Statistics Section, American Public Health Association
11) Program Committee Co-Chair, 142th American Public Health Association Annual Meeting, New Orleans, LA, Nov 15-19, 2014
12) US National Institute of Health (NIH) invited special panel (2014/08 ZRG1 AARR-G (55) R RFA Panel: Tobacco Control Regulatory Research) reviewer for research proposals submitted to NIH for funding, Bethesda, MD. June 3, 2014.
13) Program Committee Chair, 141th American Public Health Association Annual Meeting, Boston, MA, Nov 2-6, 2013
14) Program Committee Chair, 140th American Public Health Association Annual Meeting, San Francisco, CA, October 27-31, 2012
15) Program Committee Co-Chair, 138th American Public Health Association Annual Meeting, Denver, CO, November 6-10, 2010.
16) Statistics Program co-Chair, 138th American Public Health Association Annual Meeting
17) Program Committee member of Biopharmaceutical Applied Statistics Symposium
18) Program moderator of BASS XVI (Nov 2009), BASS XVII (Nov 2010)
19) Section Chair for Biopharmaceutical Section, ENAR 2010, New Orleans, LA
20) Section Chair for Computation Statistics, JSM 2010, Vancouver.

21) Full member of Sigma Xi (The Scientific Research Society)
22) National Science Foundation special panel reviewer (October 2005).
23) Foundation member of the international society of ecological informatics (ISEI)
24) Section Chair for the 2nd international conference for ISEI in Australia, 2000
25) Selected member of the International Scientific Committee for the 3rd Conference of ISEI in Italy, 2002
26) Invited Reviewer for professional journals (JASA, Statistics in Medicine, Biometrics, Computational Statistics & Data analysis, Journal of Statistical Computation and Simulations; Journal of Agricultural, Biological, and Environmental Statistics; Journal of Biopharmaceutical Statistics; International Journal of Ecological Modelling and Systems Ecology; Journal of Computational and Graphical Statistics; International Journal of Environmental Health Perspectives and more).

11. Department, School, and University Activities

- **The University of North Carolina at Chapel Hill**
  1) Director of Consortium for Statistical Development and Consultation, August 2015-October 2021
  2) Associate Director of Data Analytics, Jan 2016-October 2021
  3) Ph.D. Committee, 2015-October 2021
  4) Institutional Review Board Committee (2017-2021)

- **University of Rochester**
  1) Executive member, Center for Research and Evidence-Based Practice.
  2) Group leader, "Statistical Design and Analysis Consulting Group": bi-weekly consulting meeting for the School faculty and Ph.D. students on statistical design and analysis
  3) Member of Ph.D. Sub-Committee
  4) College Research Advisory Committee Member to direct research plan and missions

- **Georgia Southern University**
  1) College Promotion and Tenure Committee (2009-2010)
  2) College Research Advisory Committee member (2009-2010)

- **South Dakoda State University**
  1) Coordinator for the biostatistics/bioinformatics Computational Sciences and Statistics (CSS) Ph.D. program at South Dakota State University (SDSU)
  2) CSS Ph.D. Steering Committee member between SDSU and the University of South Dakota.
  3) Coordinator for the statistical consulting service for faculty, graduate students, local business and research centres.
  4) Search Committee Chair for Bioinformatics faculty position to build the bioinformatics program
  5) Group leader on Biostatistics and Bioinformatics Research Group

12. Faculty, Researchers and Students Mentored

Postdocs

1) Dr. Habte Tadesse (January 2024 to). College of Health Solutions, Arizona State University
2) Dr. Kassu Mehari Beyene (October 2022 to Nov 2023). College of Health Solutions, Arizona State University
3) Dr. Isaac Singini (May 2021-May 2022). Department of Statistics, University of Pretoria, South Africa. Research topics in Latent-class joint modeling and model diagnostics.
4) Dr. Moses Okumu (August 2019-August 2021). School of Social Work, The University of North Carolina at Chapel Hill
5) Dr. Ai Bo (August 2019-August 2020). School of Social Work, The University of North Carolina at Chapel Hill
6) Dr. Mohadesch Shojai (March 2020-December 2021). Department of Statistics, University of Pretoria, South Africa. Research topics in zero-inflated marginal joint modeling.
7) Dr. Elham Mirfarah (March 2019-March 2021). Department of Statistics, University of Pretoria, South Africa. Research topics in Survival modeling and accelerated failure time modeling.
8) Dr. Mehrdad Naderi (May 2020-March 2021). Department of Statistics, University of Pretoria, South Africa. Research topics in Survival modeling.
9) Dr. Ropo Ebenezer Ogunsakin (August 2018 - December 2019). Department of Statistics, University of Pretoria, South Africa. Research topics in Geospatial modeling on HIV/AIDS data. Successfully completed and full-time employed as a biostatistician at UKZN.

10) Dr. Wang, W(June 2013-June 2014), University of Rochester. Research topics in zero-inflated modeling.

Ph.D. Students

1) Gilson Honvoh (Fall 2019-October 2021, Committee member) Department of Biostatistics, The University of North Carolina at Chapel Hill.
2) Haipeng Gao: Department of Statistics and Operations Research (Fall 2017 to Spring 2019, with Professor Chuanshu Ji, Committee member). Title: Bayesian Inference for Stochastic Cusp Catastrophe Model. The University of North Carolina at Chapel Hill.
3) Elaina Sabatine (Fall 2016 to Spring 2019, with Professor Lippold, School of Social Work, Committee member). Title: Blooming where they are planted: closing cognitive achievement gaps with non-cognitive skills. The University of North Carolina at Chapel Hill
4) Angela You (Fall 2015 to Spring 2018, with Professor Dean Duncan, School of Social Work, Committee member); Title: Psychotropic Medication in Foster Care. The University of North Carolina at Chapel Hill
5) Vanessa Miller (Fall 2016-Spring 2018 with Professor Gary Slade, Department of Dental Ecology and Department of Epidemiology, Gilling's School of Global Health. Committee member). Title: Painful Temporomandibular Joint Disorder (TMD) and Related Disability. The University of North Carolina at Chapel Hill
6) Michael Close (Fall 2016 to Spring 2018, with Professor Leslie Lytle, Department of Health Behavior, Gillings School of Global Health). Title: Identifying and Describing Segments of Office Workers By Activity Patterns: Associations with Demographic Characteristics, Levels of Physical Activity, and Body Mass Index. The University of North Carolina at Chapel Hill
7) Tarisai Chimbwa (June 2018-June 2019, Died due to COVID-19 infection), Department of Statistics, University of Pretoria, South Africa.
8) Alfred Musekiwa, PhD in Biostatistics (with Professors Samuel Manda and Henry Mwambi. June 2013-July 2017. School of Mathematics, Statistics and Computer Science, University of KwaZulu-Natal, South Africa. Employed as an associate professor at University of Pretoria now.
9) Suzanne O'Brian (2011, with Ingersoll, G. and Xue, Y.). University of Rochester.
10) Rebecca Tucker (2012, with Quinn, J. and Chen, L) University of Rochester.

11) Annette Graph (2013, with Kearney, M. and Fielding, S.) University of Rochester.
12) Wu, P.(2013, with Tu, X. and He, H.) University of Rochester.
13) Tao Yu (2013, with Liang, H, Salzman, P. and Qiu, X.) University of Rochester.
14) Xiao Zhang (2014, with McDermott, D., Mudholkar, G. and Qiu, X.) University of Rochester.
15) Tian Chen (2015, Tu, X., He, H. and Thurston, S.) University of Rochester.
16) Frank DiLiberto (2014, with Quinn, J.) University of Rochester.
17) Brenda McQuillian (2016, with Rhee, H.) University of Rochester.
18) Tom Brandenburger (2009). Department of Mathematics and Statistics, South Dakoda State University, now an associate Professor at SDSU;
19) Alfred Furth (2009) Department of Mathematics and Statistics, South Dakoda State University, now a vice president at Capital Card.

Masters Students

1) Layla Norman (Jan 2020-Sept 2023). Statistical meta-analysis. Department of Statistics, University of Pretoria, South Africa.
2) Dietrich Bauermerster (Jan 2021-May 2023). Comparison Between the Performance of Continuous and Dichotomized Joint Modelling. Department of Statistics, University of Pretoria, South Africa.
3) Rian Hendrik Botes (January 2021 to December 2022): An optimised rabies vaccination schedule for rural settlements. Department of Statistics, University of Pretoria, South Africa. Co-supervised with Professor Inger Fabris-Rotelli as supervisor.
4) Mhlengi Mgaga (With Professor Henry Mwambi. June 2017-Dec 2018). Title: Meta-analysis with application to estimating combined estimators of effect sizes in biomedical research. School of Mathematics, Statistics and Computer Science, University of KwaZulu-Natal, South Africa.
5) Farrar, Carly Ann (Fall 2017-Spring 2019) School of Social Work, The University of North Carolina at Chapel Hill.
6) Gaylord, Shannon Marie (Fall 2017-Spring 2019) School of Social Work, The University of North Carolina at Chapel Hill.
7) Martin, Brenna Kathleen (Fall 2017-Spring 2019) School of Social Work, The University of North Carolina at Chapel Hill.

8) Pardue, Jodi H.(Fall 2017-Spring 2018) School of Social Work, The University of North Carolina at Chapel Hill.
9) Smith, Olivia Lee Wilson (Fall 2017-Spring 2019) School of Social Work, The University of North Carolina at Chapel Hill.
10) Rebaka Worthley (2009) Department of Mathematics and Statistics, South Dakoda State University
11) XiangFan Yin (2008). Department of Mathematics and Statistics, South Dakoda State University
12) Krishna Deepthi (2008) Department of Mathematics and Statistics, South Dakoda State University
13) Ramu Sudhagoni (2008) Department of Mathematics and Statistics, South Dakoda State University
14) Mike Wallinga (2008) Department of Mathematics and Statistics, South Dakoda State University

Undergraduate Students

- Honor Students: Itumeleng Choche (2020); Dietrich Bauermesister (2020); Tebogo Mphahlel (2020); Keamogetse (Bella) Makoe (2020). Department of Statistics, University of Pretoria, South Africa.