

**CURRICULUM VITAE**  
**MARIA ADELA GRANDO, PhD, MCS**  
agrando@asu.edu  
Associate Professor, Tenured  
**College of Health Solutions**  
**Biomedical Informatics**

EDUCATION

- 2009**     **PhD in Formal Languages and Applications**  
Rovira i Virgili University, Spain
- Thesis: ‘Contributions of Formal Language Theory to the Study of Dialogues.’  
*Excellent with honors ‘cum laude’*
- 2003**     **Master in Computer Science**  
Universidad Nacional de Río Cuarto, Argentina
- Thesis: Extending the Unified Modeling Language Activity Graph Metamodel based on the Workflow Metamodel.’ *Best Student Award*
- 2001**     **Bachelor in Computer Science**  
Universidad Nacional de Río Cuarto, Argentina

EMPLOYMENT POSITIONS

- 2020-present**   **Associate Professor, tenured**  
Biomedical Informatics, College of Health Solutions  
Arizona State University, Arizona
- 2016-present**   **Faculty**  
Barrett, the Honors College  
Arizona State University, Arizona
- 2014-present**   **Adjunct Assistant Clinical Professor of Medicine**  
Mayo Clinic College of Medicine, Minnesota
- 2014-2020**     **Assistant Professor, tenured track**  
Biomedical Informatics, College of Health Solutions  
Arizona State University, Arizona
- 2011-2013**     **Postdoctoral researcher**  
Division of Biomedical Informatics  
University of California, San Diego, California  
Mentored by Lucila Ohno-Machado, MD, PhD and Aziz Boxwala, MD, PhD
- 2009-2011**     **Postdoctoral researcher**  
COSSAC project, UK Cancer Research  
University of Oxford, Edinburgh University and University College London  
Mentored by John Fox, PhD and David Glasspool, PhD
- 2008-2009**     **Research Associate**  
COSSAC project, UK Cancer Research  
University of Oxford, Edinburgh University and University College London  
Mentored by John Fox, PhD and David Glasspool, PhD

AREAS OF SCIENTIFIC EXPERTISE

- Patient-centered technology
- Mobile health
- Data privacy
- Clinical decision support systems
- Clinical workflows
- Computer interpretable medical guidelines

## PUBLICATIONS

### Publications Preface

- Author order: indicates level of contribution
- Autor type: \* indicates equal contribution with the first author, ‡ indicates the post-doc authors, underlined names correspond to graduate co-authors, *names in italics correspond to undergraduate co-authors*
- American Medical Informatics Association (AMIA) Annual Conference and World Congress on Medical and Health Informatics (MEDINFO) are considered top-tiered publication venues in clinical informatics. These are PubMed indexed, peer-reviewed, citable, full papers.

### Books

1. **M. A. Grando**, R. Rozemblum, D. Bates editors (2015): *Information Technologies for Patient Empowerment in Healthcare*, Walter de Gruyter, March 2015, ISBN-10: 1614515921.

### Journal papers

1. **M. A. Grando**, V. Vellore, B. J. Duncan, D. R. Kaufman, S. K. Furniss, B. N. Doebbeling, K. A. Poterack, T. Miksch, R. A. Helmers (2020) Ethno-Mining for the Study of EHR-Mediated Workflows. *Health Informatics Journal*. In press. Impact factor: 2.932
2. B. J. Duncan, D. R. Kaufman, L. Zheng, **M. A. Grando**, S. K. Furniss, K. A. Poterack, T. A. Miksch, R. A. Helmers, B. N. Doebbeling (2020) A Micro-analytic Approach to Understanding Electronic Health Record Navigation Paths. *Journal of Biomedical Informatics* Volume 110, October 2020, 103566. Available online at <https://www.sciencedirect.com/science/article/abs/pii/S1532046420301957>. Impact factor: 3.526
3. M. Saks, **M. A. Grando**, Chase M., A. Murcko (2020) Advancing the Use of HIE Data for Research. *Arizona State Law Journal* Volume 52, Issue 1, 145-189
4. **M. A. Grando**, D. Sottara, R. Singh, A. Murcko, H. Soni, T. Tang, *N. Idouraine*, M. Mote, D. Chern, C. Dye, M.J. Whitfield (2019). Pilot Evaluation of Sensitive Data Segmentation Technology for Privacy. *International Journal of Medical Informatics* 138 (2020) 104121. Impact factor: 3.025
5. D. Groat, K. Corrette, **M. A. Grando**, V. Vellore, M. Bayuk, G. Karway, R. G. McCoy, K. Grimm, C. Cook, B. Thompson (2019) Data-Driven Diabetes Education Guided by a Personalized Report for Patients on Insulin Pump Therapy. *Applied Clinical Informatics* 04(01): e9-e21 Impact factor: 2.147
6. H. Soni, **M. A. Grando**, A. Murcko, *S. Diaz*, M. Mukundan, *N. Idouraine*, G. Karway, M. Todd, D. Chern, C. Dye, M. J. Whitfield (2019). State of the Art and Mixed-Method Personalized Approach to Assess Patients Perceptions on Medical Record Sharing and Sensitivity. *Journal of Biomedical Informatics* 101 (2020) 103338. Impact factor: 3.526
7. G. Karway, **M.A. Grando**, K. Grimm, D. Groat, C. Cook, B. Thompson (2019). Self-Management Behaviors of Patients with Type 1 Diabetes: Comparing Two Sources of Patient-Generated Data. *Applied Clinical Informatics* 11(1):70-78. Impact factor: 2.147
8. J. Ivanova, **M. A. Grando**, A. Murcko, M. Saks, M. J. Whitfield, C. Dye, D. Chern (2019). Mental Health Professionals' Perceptions on Patients Control of Data Sharing. *Health Informatics Journal* 26(3):2011-2029. Impact factor: 2.932
9. **M. A. Grando**, J. Ivanova, *M. Hiestand*, H. Soni, A. Murcko, M. Saks, D. Kaufman, M. J. Whitfield, C. Dye, D. Chern, J. Maupin (2019). Mental Health Professional Perspectives on Health Data Sharing: Mixed Methods Study. *Health Informatics Journal* 26(3):2067-2082. Impact factor: 2.932
10. L. Zheng, D. Kaufman, B. J. Duncan, S. K. Furniss, **M. A. Grando**, K. Poterack, et al (2019). A task-analytic framework comparing preoperative electronic health record-mediated nursing workflow in different settings. *Computers Informatics Nursing* 38(6):294-302. Impact factor: 1.029

11. **M. A. Grando**, M. Bayuk, G. Karway, K. Corrette, D. Groat, C. Cook, B. Thompson (2019). Patient Perception and Satisfaction with Insulin Pump System: Pilot User Experience Survey. *Journal of Diabetes Science and Technology* 13 (6): 1142-1148
12. R. Helmers, B. N. Doebbeling, D. Kaufman, **A. Grando**, K. Poterack, S. Furniss, M. Burton, T. Miksch (2019). Mayo Clinic Registry of Operational Tasks (ROOT): A Paradigm Shift in EHR Implementation Evaluation. *Mayo Clinic Proceedings: Innovations, Quality and Outcomes* 23;3(3):319-326
13. ‡D. Groat, H. J. Kwon, **A. Grando**, C. B. Cook, B. Thompson (2018). Comparing Real-Time Self-Tracking and Device-Recorded Exercise Data in Subjects with Type 1 Diabetes. *Applied Clinical Informatic* 9(4):919-926. Impact factor: 2.147
14. M. J. Saks, **A. Grando**, A. Murcko, C. Millea (2018) Granular Patient Control of Personal Health Information: Federal and State Law Considerations. *Jurimetrics, The Journal of Law, Science and Technology* 48(5): 1-25
15. ‡D. Groat, **A. Grando**, H. Soni, B. Thompson, D. Kaufman, C. Cook (2018). Design and Testing of a Smartphone Application for Real-Time Self-Tracking Diabetes Self-Management Behaviors. *Applied Clinical Informatics* 9(2):440-449. Impact factor: 2.147
16. D. Groat, H. Soni, **M. A. Grando**, B. Thompson, C. Cook (2017). Self-reported Compensation Techniques for Carbohydrate, Exercise and Alcohol Behaviors in Patients with Type 1 Diabetes on Insulin Pump Therapy. *Journal of Diabetes Science and Technology* 12(2): 412-414
17. D. Groat, **M. A. Grando\***, B. Thompson, P. Nieto, H. Soni, M. E. Boyle, M. Bailey, C. B. Cook (2017). A Methodology to Compare Insulin Dosing Recommendations in Real-Life Settings. *Journal of Diabetes Science and Technology* 11(6):1174-1182
18. **M. A. Grando**, A. Murcko, S. Mahankali, M. Saks, M. Zent, D. Chern, R. Sharp, L. Young, P. Davis, M. Hiestand, N. Hassanzadeh (2016). A study to elicit behavioral health patients and providers opinions on health records consent. *Journal of Law, Medicine and Ethics* 45 (2): 238-259. Impact factor: 0.986
19. D. Groat, **M. A. Grando\***, H. Soni, B. Thompson, M. E. Boyle, M. Bailey, C. B. Cook (2016) Self-management behaviors in adults on insulin pump therapy: What are patients really doing? *Journal of Diabetes Science and Technology* 11(2): 233-239
20. **M. A. Grando\***, D. Groat, H. Soni, M. E. Boyle, M. Bailey, B. Thompson, C. B. Cook (2016) Characterization of exercise and alcohol self-management behaviors of type 1 diabetes patients on insulin pump therapy. *Journal of Diabetes Science and Technology* 11(2): 240-246
21. **M. A. Grando**, L. Moss, D. Sleeman, J. Kinsella (2013) Argumentation-logic for creating and explaining medical hypotheses. *Artificial Intelligence in Medicine* 58(1): 1-13. Impact factor: 3.574
22. **M. A. Grando**, D. Glasspool, A. Boxwala (2012) Argumentation-logic for the flexible enactment of goal-based medical guidelines. *Journal of Biomedical Informatics* 45(5): 938-49. Impact factor: 3.526
23. **M. A. Grando**, D. Glasspool, J. Fox (2012) A formal approach to the analysis of clinical computer-interpretable guideline modeling languages. *Artificial Intelligence in Medicine* 54 (1): 1-13
24. **M. A. Grando**, M. Peleg, M. Cuggia, D. Glasspool (2011). Patterns for collaborative work in health care teams. *Artificial Intelligence in Medicine* 53(3) 139-160. Impact factor: 3.574
25. **M. A. Grando**, M. Peleg, D. Glasspool (2010). A goal-oriented framework for specifying clinical guidelines and handling medical errors. *Journal of Biomedical Informatics* 43-2: 287-299. Impact factor: 3.526
26. **M. A. Grando**, V. Mitrana (2007) Possible Connection Between Two Theories: Grammar Systems and Conpresent Programming. *Fundamenta Informaticae*, volume 76 number 3, IOS Press: 325-336. Impact factor: 0.658

Journal manuscripts in-review process

1. H. Soni, J. Ivanova, M. A. Grando, A. Murcko, D. Chern, C. Dye, M. J. Whitfield. Comparison of Medical Records Sensitivity Perspectives of Patients with Behavioral Health Conditions and Healthcare Providers. *Health Informatics Journal*. ACCEPTED with revisions. Impact factor: 2.932
2. J. Ivanova, T. Tang, M. Idouraine, A. Murcko, **A. Grando**, M. J. Whitfield, C. Dye, D. Chern. Behavioral Health Professionals' Perceptions on Outcomes of Patient-Controlled Granular Information Sharing Study: Focus Groups and Survey. *Journal of Medical Internet Research*. ACCEPTED with revisions. Impact factor: 5.03
3. J. Ivanova, T. Tang, M. Idouraine, A. Murcko, A. Grando, M. J. Whitfield, C. Dye, D. Chern. Mixed-Methodology Comparison on Behavioral Health Professionals' Perceptions on Patient-Controlled Granular Sharing: Survey and Focus Group Interview. *Journal of Medical Internet Research*. ACCEPTED with revisions. Impact factor: 5.03

Conference peer-reviewed, full-size papers

1. L. Zheng, B. J. Duncan, D. R. Kaufman, S. K. Furniss, **A. Grando**, K. A. Poterack, R. A. Helmers, T. A. Miksch, B. N. Doebbeling (2020). EHR Conversion on the PreOp Care: A Pre-Post Workflow Comparison. AMIA Annu Symp 2020, in press. **Nominated for best student paper**
2. B. J. Duncan, D. R. Kaufman, L. Zheng, **A. Grando**, S. K. Furniss, K. A. Poterack, T. A. Miksch, R. A. Helmers, B. N. Doebbeling (2020). We're Lost, But We are Making Good Time: Navigating Complex Pathways in a Patient-Order Management Task. AMIA Annu Symp 2020, in press
3. V. R. Vellore, M. A. Grando, B. Duncan, D. R. Kaufman, S. K. Furniss, B. N. Doebbeling, K. A. Poterack, T. Miksch, R.A. Helmers (2019). Process mining and Ethnography Study of Medication Reconciliation Tasks. AMIA Annu Symp 2019: 1167-1176
4. H. Soni, A. Grando, M. P. Aliste, A. Murcko, M. Todd, M. Mukundan, M. Saks, *C. Horrow*, R. Sharp, C. Dye, D. Chern, M. J. Whitfield, M. Callesen (2019). Perceptions and preferences about granular data sharing and privacy of behavioral health patients. World Congress on Medical and Health Informatics (MEDINFO), Lyon, France, August 26-30
5. B. Duncan, A. J. Solomon, L. Zheng, B. N. Doebbeling, S. K. Furniss, **A. Grando**, M. M. Burton, K. A. Poterack, T. A. Miksch, R. A. Helmers, D. R. Kaufman (2018). In Search of Vital Signs: A Comparative Study of EHR Documentation. AMIA Annu Symp 2018, November 3-7
6. *A. Ponnappalli*, **A. Grando**, A. Murcko, P. Wertheim (2018). Systematic Literature Review of Prescription Drug Monitoring Programs. AMIA Annu Symp 2018, November 3-7
7. **A. Grando**, A. Manataki†, S. K. Furniss, B. Duncan, A. Solomon, D. Kaufman, S. Hirn, R. Sunday, J. Bouchereau, B. Doebbeling, M. M. Burton, K. A. Poterack, T. Miksch, R. A. Helmers (2018). Multiple-method study of electronic health record workflows. AMIA Annu Symp 2018, November 3-7
8. B. Duncan, A. Solomon, B. Doebbeling, S. K. Furniss, **A. Grando**, K. A. Poterack, T. Miksch, R. A. Helmers, D. Kaufman (2017). A Comparative In-Situ Study of Two Medication Reconciliation Interfaces in Pre-Operative Nurse Assessments. Workshop on Interactive Systems in Healthcare (WISH). AMIA Annu Symp 2017, November 4-8
9. H. Soni, M. A. Grando, A. Murcko, M. Bayuk, P. Chandrashekar, M. Mukundan, M. Abrams, M. P. Aliste, M. Hiestand, J. Varkey, W. Zhou, C. Horrow, M. Saks, R. Sharp, M. Whitfield, M. Callesen, C. Dye, D. Chern (2017). Current State of Electronic Consent Processes in Behavioral Health: Outcomes from an Observational Study. AMIA Annu Symp 2017; 2017:1607-1616
10. **M. A. Grando**, D. Groat, S. K. Furniss, J. Nowak, R. Gaines, D. R. Kaufman, K. A. Poterack, T. Miksch, R. A. Helmers (2017). Using Process Mining Techniques to Study Workflows in a Pre-operative Setting. AMIA Annu Symp 2017; 2017:790-799

11. B. Doebbeling, M. Burton, D. Kaufman, K. Poterack, M. McCullough, **M. A. Grando**, R. Helmers, T. Miksch (2016). Integrated Workflow Capture in an EHR Conversion: Standardizing on Best Practice Methods. AMIA Annu Symp 2016
12. S. K. Furniss, M. M. Burton, **M. A. Grando**, D. W. Larson, D. R. Kaufman (2016). Integrating Process Mining and Cognitive Analysis to Study EHR Workflow. AMIA Annu Symp 2016; 2016:580-589
13. D. R. Kaufman, S. K. Furniss, **M. A. Grando**, D. W. Larson, M. M. Burton (2015). A Sequential Data Analysis Approach to Electronic Health Record Workflow. Context Sensitive Health Informatics Conference 2015, August 15-16, Brazil. Stud Health Technol Inform 218:120-5
14. B. Lloyd, D. Groat, C. B. Cook, D. Kaufman, **M. A. Grando** (2015). iDECIDE: A Mobile Application for Insulin Dosing Using an Evidence Based Equation to Account for Patient Preferences. World Congress on Medical and Health Informatics (MEDINFO). IOS Press, Studies in Health Technology and Informatics, pp. 93 - 97. Editors: I. N. Sarkar, A. Georgiou, P. Mazzoncini de Azevedo Marques
15. L. Johnstun, D. Groat, A. Bhalla, K. J. Peterson, J. Pathak, **M. A. Grando** (2014). Using Phenotype Portal for Checking Clinical Guideline Recommendation Compliance. AMIA Annu Symp 2014
16. E. A. Bell, L. Ohno-Machado, **M. A. Grando\*** (2014). Sharing My Health Data: A Survey of Data Sharing Preferences of Healthy Individuals. AMIA Annu Symp 2014; 2014: 1699–1708
17. S. Farrish, **M. A. Grando\*** (2013). Ontological Approach to Reduce Complexity in Polypharmacy. AMIA Annu Symp 2013; 2013: 398-407
18. **M. A. Grando**, R. Schwab (2013). Building and Evaluating an Ontology-based Tool for Reasoning about Consent Permission. AMIA Annu Symp 2013; 2013: 514-523
19. **M. A. Grando**, R. Schwab, A. Boxwala, ‡N. Alipanah (2012). Ontological approach for the management of informed consent permissions. 2<sup>nd</sup> IEEE International Conference on Healthcare informatics, Imaging, and Systems Biology, UCSD San Diego, 51-60
20. **M. A. Grando**, S. F. Farrish, C. Boyd, A. Boxwala (2012). Ontological approach for safe and effective polypharmacy prescription. AMIA Annu Symp Proc. 2012; 2012: 291-300
21. A. Maghraby, D. Robertson, **M. A. Grando**, M. Rovatsos (2012) Automated Deployment of Argumentation Protocols. 4<sup>th</sup> International Conference on Computational Models of Argument (COMMA 2012). IOS Press, 197-204
22. A. Maghraby, D. Robertson, **M. A. Grando**, M. Rovatsos (2012) Bridging the Specification Protocol Gap in Argumentation. 9<sup>th</sup> International Workshop on Argumentation in Multi-Agent Systems (ArgMas 2012)
23. ‡P. Papapanagiotou, J. Fleuriot, **M. A. Grando** (2012). Rigorous process-based modeling of patterns for collaborative work in healthcare teams. 25<sup>th</sup> IEEE International Symposium on Computer-based Medical System (CBMS 2012), 1-6
24. A. O. Maghraby, D. Robertson, **M. A. Grando**, M. Rovatsos (2011). Bridging the Specification-Protocol Gap in Argumentation. 5<sup>th</sup> Saudi International Conference (SIC2011)
25. **M. A. Grando**, W.M.P. van der Aalst, R.S. Mans (2011), Reusing a declarative specification to check the conformance of different CIGs. 4<sup>th</sup> International Workshop on Process-oriented Information Systems in Healthcare 2011, in 9<sup>th</sup> Conference on Business Process Managements
26. **M. A. Grando**, M.H. Schonember, W. van der Aalst (2011), Semantic-based Conformance Checking of Computer Interpretable Medical Guidelines. International Conference of Health Informatics HealthInf BIOSTEC. Springer Verlag, pp. 5-16. Editors: V. Traver, A. Fred, J. Filipe, H. Gamboa
27. **M. A. Grando**, ‡L. Moss, D. Glasspool, D. Sleeman, M. Sim, C. Gilhooly, J. Kinsella (2011) Argumentation-logic for explaining anomalous patient responses to treatments. Conference Artificial Intelligence in Medicine. Springer Verlag Berlin Editors: M. Peleg, N. Lavrac, C. Combi

28. **M. A. Grando**, M. H. Schonember, W. van der Aalst (2011), Semantic Process Mining for the verification of medical recommendations. International Conference of Health Informatics HealthInf (Rome, Italy)
29. **M.A. Grando**, M. Peleg, D. Glasspool (2010). Goal-based design pattern for delegation of work in health care teams. World Congress of Medical and Health Informatics (MEDINFO). Stud Health Technol Inform 160 (Pt 1): 299-303
30. L. Becerra-Bonache, G. Bel-Enguix, **M. A. Grando\***, M. D. Jimenez-Lopez (2010). Simulacion del dialogo con sisemas de gramaticas dirigidos. IX International Congress of General Linguistics, Valladolid, Spain
31. ‡E. Black, D. Glasspool, **M. A. Grando\***, V. Patkar, J. Fox (2009). Goal-based decisions for dynamic planning. Int. Conference Artificial Intelligence in Medicine 56: 96-100
32. **M. A. Grando**, D. W. Glasspool, J. Fox (2008) Petri Nets as a formalism for comparing expressiveness of workflow-based Clinical Guideline Languages. 2<sup>nd</sup> International Workshop on Process-oriented information systems in healthcare (ProHealth 08), 6<sup>th</sup> International Conference on Business Process Management 2008, Lecture Notes in Business Information Processing 17 Springer: 348-360
33. G. Bel-Enguix, **M. A. Grando\***, M. D. Jimenez-Lopez, (2007). An interaction protocol for agent communication. Conference Software Agents and Services for business Research and E-sciences (SABRE 2007), Leipzig (Germany), Multi-Agent Systems and Applications V, LNCS, Springer Berlin/Heidelberg, volume 4696: 62-72
34. **M. A. Grando**, C. Walton (2006). The MAPa Language of Agent Dialogues. Fifth International Joint Conference on Autonomous Agents & Multi Agent Systems (AAMAS06), Hakodate, (Japan): 1375 – 1377
35. G. Bel-Enguix, **M. A. Grando\***, M. D. Jimenez-Lopez (2006). Distributed Protocols and Distributed Grammars: Two Theories for Agent Communication. AAMAS Workshop on Agent Communication (AC 2006) Japan: 35-49
36. **M. A. Grando**, C. Walton (2006). MAPa: a Language for Modelling Conversations in Agent Environments. Intelligent Information Processing and Web Mining Conference 2006 (IIPWM06), Ustron (Poland), Proceeding IIPWM06, Series Advances in Soft Computing Vol. 35, Springer Verlag
37. **M. A. Grando**, C. Walton (2006) Specifying Protocols for Knowledge Transfer and Action Restriction in Multiagent Systems. 10th International Workshop on Cooperative Information Agents (CIA2006) Edinburgh (UK), Lecture Notes in Artificial Intelligence 4149, Springer Verlag
38. G. Bel-Enguix, **M. A. Grando\***, M. D. Jimenez-Lopez (2006) A Grammatical Framework for Modelling Multi-agent Dialogues. 9th Pacific Rim International Workshop on Multi-Agents, PRIMA 2006 Guilin (China), Proceedings PRIMA 2006, Agent Computing and Multi-Agent Systems, LNCS 4088, Springer: 10-21
39. H. Dediu, **M. A. Grando\*** (2005) Eco-grammar systems as models for Parallel Evolutionary Algorithms. SAGA-2005, 3rd. Symposium on Stochastic algorithms, foundations and applications, Moscow (Russia), Proceedings SAGA-2005, Stochastic Algorithms: Foundations and Applications, Lecture Notes in Computer Science 3777 Springer: 228-238
40. H. Dediu, **M. A. Grando\*** (2005) Simulating Evolutionary Algorithms with Eco-grammar Systems. IWINAC-2005, 1st. International Work-Conference on the interplay between natural and artificial computation, Lecture Notes in Computer Science Springer: 112-121
41. **M. A. Grando**, V. Mitran (2004) A possible connection between two theories: Grammar Systems and Conpresents Programming. Grammar System Week 2004 Hungary, Proc. Grammar System Week: 200-211
42. **M. A. Grando**, E. Acosta, M. Uva, D. Riesco, N. Debnath (2002).Extension of UML Activity Graph based on the Workflow Meta-model. Proceeding of the Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2002), Madrid (Spain)

43. D. Riesco, G. Montejano, E. Acosta, M. Uva, **M. A. Grando**, N. Debnath (2002). Workflow Application Activity Definition using OCL based on UML Activity Graph Meta-model. Proceeding of International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications, Foz do Iguazu (Brazil)
44. E. Acosta, M. Uva, **M. A. Grando**, D. Riesco, N. Debnath (2002). An extension of UML Activity Graph Metamodel based on the Workflow Metamodel. 31 Argentinian Conference in Informatics (JAIIO), Argentina

#### Book chapters, peer-reviewed

1. Y. Schneider, **M. A. Grando**, J. S. Obeid, W. Bajwa (2015). 'Electronic Media for Engaging Patients in the Research Consent Decision Process.' M. A. Grando, R. Rozembum, D. Bates editors. *Book chapter* in 'Information Technologies for Patient Empowerment in Healthcare'. M.A. Grando, R. Rozemblum and D. Bates editors, Walter de Gruyter, ISBN-10: 1614515921
2. **A. Grando**, L. Moss, G. Bel-Enguix, M. D. Jimenez-Lopez (2013). 'Argumentation-based dialogue systems for medical training.' Amy Neustein and Judith Markowitz editors. *Book chapter* in 'Machine Talk: The Next Generation of NLP and Speech Technology.' Springer: 213-232

#### Posters, podium presentations and abstracts, peer-reviewed

1. A. Bhowmik, G. Karway, J. Ivanova, A. Murcko, A. Grando (2020). Systematic Literature Review on 42 CFR Part 2. 2020 AMIA Annu Symp
2. T. Tang, N. Idouraine, J. Ivanova, H. Soni, A. Murcko, **A. Grando**, D. Chern, C. Dye, MJ Whitfield. Health Care Professional Perspectives of Patient-Controlled Granular Information Sharing. 2020 AMIA Annu Symp
3. N. Idouraine, J. Ivanova, T. Tang, H. Soni, A. Murcko, **A. Grando**. What is a provider? Need for a new healthcare professionals taxonomy. 2020 AMIA Annu Symp
4. T. Tang, N. Idouranie, J. Ivanova, H. Soni, A. Murcko, **M. A. Grando**, D. Chern, C. Dye, M. J. Withfield (2019). Comparison of health care professional perspectives of patients having granular sharing control before and after focus groups. American College of Physician (ACP), Annual Arizona Chapter, Tucson, Arizona
5. S. Ponnappalli, A. Johnson, S. LaCour, B. Ruddy, H. Fields, A. Murcko, **A. Grando**, P. Davis. M. Wallace (2019). Improving Delivery of Chronic Opioid Therapy (COT) in a Primary Care Internal Medicine Clinic: Quality Improvement Study. 2019 AMIA Annu Symp
6. M.P. Aliste, **A. Grando**, A. Murcko, H. Soni, M. Todd, M. Mukundan, M. Saks, C. Horrow, R. Sharp, C. Dye, D. Chern, M. J. Whitfield, M. Callesen (2019). Design and Pilot Testing of an English and Spanish Behavioral Health Patient Survey on Data Privacy. World Congress on Medical and Health Informatics (MEDINFO), Lyon, France
7. **A. Grando**, A. Murcko, H. Soni, D. Chern, C. Dye, MJ Whitfield (2018). Patient-driven, Granular Control of Sensitive Health Data: My Data Choices. American Society of Addiction Medicine Annual Conference
8. **M. A. Grando**, M. Bayuk, D. Groat, B. Thompson (2018). MiniMed 670G: Results from a User Experience Survey. Diabetes Technology Meeting
9. **M. A. Grando**, M. Bayuk, D. Groat, B. Thompson (2018). Self-reported behaviors among insulin pump users. Diabetes Technology Meeting
10. A. Ponnappalli, **A. Grando**, A. Murcko, P. Wertheim (2018). Systematic Literature Review of Prescription Drug Monitoring Programs. ASU- BMI and Mayo Clinic Employer Networking and Student Poster Competition, Scottsdale, Arizona. **Best poster award**

11. A. Solomon, B. Doebbeling, D. Kafuman, S. Furniss, **A. Grando**, K. Poterack, R. Helmers, M. Burton, T. Miksch, B. Duncan, L. Zheng (2018). Charaterizing Workflow in EDs of a Health System Prior to EHR Conversion. Academy Health Annual Research Meeting
12. M. Wallace, B. Ruddy, H. Fields, A. Murcko, **A. Grando**, P. Davis, A. Ponnappalli, M. Buras (2018). Chronic Opioid Therapy (COT) Guideline Implementation: Stakeholder Impact. AMIA Clinical Informatics 2018
13. B. Duncan, L. Zheng, B. Doebbeling, A. Solomon, S. Furniss, **A. Grando**, M. Burton, K. Poterack, T. Miksch, R. Helmers, D. Kaufman (2018). Categorization of EHR Design Problems Using Usability Heuristics, AMIA Clinical Informatics 2018, May 8-10
14. L. Zheng, B. Duncan, B. Doebbeling, A. Solomon, S. Furniss, **A. Grando**, M. Burton, K. Poterack, T. Miksch, R. Helmers, D. Kafuman (2018). Preoperative Nursisng Workflow and Problem Solving, AMIA Clinical Informatics 2018, May 8-10
15. B. Duncan, L. Zheng, B.N. Doebbeling, A. J. Solomon, S. K. Furniss, **M. A. Grando**, M. M. Burton, K. A. Poterack, T. Miksch, R. A. Helmers, D. R. Kaufman (2018). Preoperative Medication Management: Reconciling Differences across Clinical Sites. Human Factors and Ergonomic Society, Healthcare Symposium, March 26-28
16. M. Hiestand, **M. A. Grando**, A. Murcko, H. Soni, J. Varkey, C. Horrow, M. Saks, R. Sharp, M. J. Whitfield, M. Callesen, C. Dye, D. Chern (2017). Behavioral Health Provider Perspectives on Health Data Sharing. AMIA Annu Symp 2017
17. M. Hiestand, **M. A. Grando**, A. Murcko, H. Soni, J. Varkey, C. Horrow, M. Saks, R. Sharp, M. J. Whitfield, M. Callesen, C. Dye, D. Chern (2017). Data Sharing and Consent Practices of Behavioral Health Providers. Conference on Governance of Emerging Technology: Law, Policy and Ethics
18. D. Groat, H. Soni, B. Thompson, M. E. Boyle, M. Bailey, C. Cook, **M. A. Grando** (2016). Understanding Self-Management Behaviors to Improve Insulin Dosing. American Diabetes Association, 76<sup>th</sup> Scientific Sessions 2016. **Selected for Moderated Session**
19. D. Groat, **M. A. Grando**, G. Wallstrom, B. Thompson, M. E. Boyle, M. Bailey, C. Cook, (2016). Retrospective Evaluation of an Evidence-based Equation for Insulin Dosing Accounting for Exercise and Alcohol. American Diabetes Association, 76<sup>th</sup> Scientific Sessions 2016
20. D. Groat, H. Soni, B. Thompson, C. B. Cook, **M. A. Grando** (2015). Characterizing Self-Management Behaviors of Type 1 Diabetes Patients on Insulin Pump Therapy. Diabetes Technology Conference 2015
21. D. Groat, H. Soni, B. Thompson, C. B. Cook, **M. A. Grando** (2015). Introducing a Method to Retrospectively Compare Insulin Dosing Recommendations. Diabetes Technology Conference 2015.
22. I. van Woerden, L. Spano, P. Nieto, D. Groat, **M. A. Grando** (2015). iDECIDE Smartphone App for Personalized Messages for Nutrition and Fitness Goals. AMIA Annu Symp 2015
23. A. Farhadi, B. Lloyd, D. Groat, ‡J. Mirkovic, C. B. Cook, **M. A. Grando** (2014). iDECIDE: A Mobile Application for Pre-Meal Insuling Dosing Using an Evidence Based Equation to Account for Patient Preferences. AMIA Annu Symp 2014
24. S. Dhamodharan, **M. A. Grando**, D. Sottara (2014). A Semantically Enhanced Clinical Rules Management Repository Prototype. AMIA Annu Symp 2014
25. A. Farhadi, B. Lloyd, D. Groat, ‡J. Mirkovic, C. B. Cook, **M. A. Grando** (2014). iDECIDE: A Mobile Application for Pre-Meal Insulin Dosing Using an Evidence Based Equation to Account for Patient Preferences. Mayo Academic Excellence Date, Scottsdale, Arizona
26. E. Bell, **M.A. Grando**, L. Ohno-Machado (2014). A Pilot Evaluation of Patient Data Sharing Preferences. AMIA Joint Summits on Translational Science 2014
27. A. Rana, **M. A. Grando**, M. Wong, E. Bell (2014). Informed Consent for clinical record and Sample use in Research. AMIA Joint Summits on Translational Science 2014
28. ‡E. C. Shenvi, **M. A. Grando**, M. L. Hilfiker, H. Kim (2013). Modeling a Decision Rule for Usage



of Diagnostic Abdominal CT in Pediatric Blunt Trauma. AMIA Annu Symp 2013

29. **M. A. Grando**, E. Johnstone (2012). Informed CONsent for clinical record and Sample use in research (iCONS). Showcase for National Centers for Biomedical Computing, NIH campus, Bethesda
30. **M.A. Grando**, R. Schwab, A. Boxwala (2012). Can we facilitate research by maximizing data and biosample utility while complying with subject's consent?. 2012 Advancing Ethical Research Conference
31. ‡L. Moss, **M. A. Grando** (2012). Helping a clinician understand anomalous patient responses to treatment. Symposium: Influencing People with Information (SIPI 2012), Aberdeen, Scotland
32. ‡L. Moss, **M. A. Grando**, D. Sleeman, M. Sim, C. Gilhooly, J. Kinsella (2011) Formalizing and understanding collaborative decision making in Intensive Care Unit. Annual Scientific Meeting of the Scottish Intensive Care Society, Aberdeen (UK) January 2011

#### Articles and reports, non peer-reviewed

1. A. C. Murcko, **M. A. Grando** (2014). 'Patient Empowerment Technology.' (2014) Round-up Volume 60 May 2014, Maricopa County Medical Society: 32-37
2. L. Ohno-Machado, ‡N. Alipanah, M. E. Day, R. El-Kareh, S. Farzaneh, P. Freeland, **A. Grando**, H. Kim, D. Meeker, K.Kim (2013). 'Comprehensive Inventory of Research Networks. Clinical Data Research Networks, Patient-Powered Research Networks, and Patient Registries.' Patient-Centered Outcomes Research Institute (PCORI) Report. Available at: <http://www.pcori.org/assets/2013/06/PCORI-Comprehensive-Inventory-Research-Networks-061213.pdf>

#### IN THE NEWS

1. 'Hihglight: Women Leaders', The Women in AMIA Monthly-News Letter, November/December, Issue 10 (2020) [https://www.amia.org/sites/default/files/WIA\\_Newsletter\\_Dec\\_2020\\_Issue\\_10.pdf](https://www.amia.org/sites/default/files/WIA_Newsletter_Dec_2020_Issue_10.pdf)
2. 'Mayo Clinic, ASU researchers create app to help manage type 1 diabetes' (2019) ABC News, <https://www.abc15.com/news/region-southeast-valley/tempe/mayo-clinic-asu-researchers-create-app-to-help-manage-type-1-diabetes>
3. 'App may make diabetes self-managemnt and personalized health care deicions earlier' (2019) Mayo Clinic, Advancing the Science <https://advancingthescience.mayo.edu/2019/06/19/app-may-make-diabetes-self-management-and-personalized-health-care-decisions-easier/>
4. 'New app for diabetes patients'(2019) PBS Arizona, <https://www.youtube.com/watch?v=ankr0-eRmMg>
5. 'Harness the Power of Information Technology to Empower your Patient.' (2016) HIMSS Asia Pacific, Member Spotlight, [http://www.himssasiapac.org/sites/default/files/HIMSSAP\\_ExclusiveArticles\\_MemberSpotlight\\_HarnessingthePower.pdf](http://www.himssasiapac.org/sites/default/files/HIMSSAP_ExclusiveArticles_MemberSpotlight_HarnessingthePower.pdf)
6. 'Creating smart health solutions with biomedical informatics.' (2014), ASU online news, Science and Tech, <https://asunews.asu.edu/20140828-biomedical-health-solutions>

#### INVITED PRESENTATIONS

- |             |  |
|-------------|--|
| <b>2020</b> | The University of Melbourne, Center for Digital Transformation of Health. To Share or not to Share, that is the Question. October 15, Melbourne, Australia   |
| <b>2020</b> | HonorHealth Epic Southwest User Group Meeting (SWUGM) 2020. How to Mine EPIC Event Logs: Mayo Clinic Experiences. February 28, Scottsdale, Arizona   |
| <b>2019</b> | Keynote speaker for the 2019 FEP® (Blue Cross- Blue Shield) Technology Conference, Let's Collaborate. Clinical Informatics: How to collaborate and get value from big data. September 18, Tempe, Arizona |

- 2019** Mayo Clinic Robert D. and Patricia E. Kern Center for Science of Health Care Delivery. Data-driven behavioral-change interventions to improve type 1 diabetes treatment adherence. July 29<sup>th</sup>, Rochester, Minnesota
- 2019** Arizona Bioethics Network, Webinars. To Share or Not to Share (my data): That's only (part of) the question. February 20
- 2018** Arizona Osteopathic Medical Association (AOMA) 96<sup>th</sup> Annual Convention. Integrating Biomedical Informatics into the Clinical Practice: The Future is Now, 11-15 April, Scottsdale, Arizona
- 2017** Biomedical Ethics Program, Mayo Clinic. My Data Choices, evaluation of effective consent strategies for patients with behavioral health conditions, August 10, 2017, Rochester, Minnesota
- 2017** Health Information Management System Society (HIMSS) 2017, Federal Health Architecture Interoperability Showcase. Demonstration of C2Share Software, 19-23 February, Orlando, Florida
- 2017** Integrated Healthcare Conference, Interoperability Information Technology Solutions for Integrated Care, 7 March 7, 2017, Scottsdale, Arizona
- 2017** Fifth Annual Conference on Governance of Emerging Technology: Law, Policy and Ethics. Panel presentation on 'My Data Choices', 17-19 May, Phoenix, Arizona
- 2017** SAMHSA Learning Collaborative on Delivering Information through Segmentation and Consent (DISC). Experiences on reusing C2Share software, 23 May, Bethesda
- 2017** AzHeC-SAMHSA Opioid Treatment Program SCP II Meeting. My Data Choices, 8 September, Phoenix, Arizona
- 2016** IKFC Clinical and Translational Science Ontology Affinity Group Workshop. Permission Ontology for informed consent and HIPAA compliance, 11-12 February, Orlando
- 2013** BRIGHT 2<sup>nd</sup> Biomedical Informatics Symposium. Informed Consent Management System, 20-22 August, Maputo, Mozambique
- 2012** Advancing Ethical Research Conference. Hot Off the Presses: Selected Posters on Innovative HRPP Programs and Research on Research Ethics. December 4-6, San Diego
- 2012** Marcus Evans Biobanking & Sample Management Strategies Conference. Panelist on 'Biobanking and Sample Management Strategies,' December 3-5, San Diego
- 2010** Technical University Eindhoven. Goal-based workflow specifications, 15 April, Eindhoven, Netherlands
- 2008** BioMedical Informatics Research Department, Stanford University. Petri Nets as a formalism for the study of workflow-based languages, October 30
- 2008** Software Systems and Processes talks, School of Informatics, Edinburgh University. PETRI NETS as a formalism for the study of workflow-based languages, October 21, Eindhoven, Netherlands
- 2008** VIII Congress on General Linguistics, Autonomous University of Madrid. Simulating dialogues with finite state transition systems, June 27, Madrid, Spain
- 2007** ForLing 2007, Workshop Non-Classical Formal Languages in Linguistics. Dialogues as extended finite transition systems, August 3, Budapest, Hungary
- 2007** Brooklyn College, City University of New York. Modelling human conversations: two approaches, February 23, New York
- 2007** Group of Mathematics and Linguistic Research (GRLMC), University Rovira i Virgili. Using Hoare logic to prove properties in grammar systems, June 12, Tarragona, Spain
- 2005** Centre of Information Systems and Applications, School of Informatics of the University of Edinburgh. Using LCC protocol as communication strategy in Eco-grammar systems, September 20, Edinburgh, UK

- 2005** Group of Mathematics and Linguistic Research (GRLMC), University Rovira i Virgili  
Modelling human conversation: two approaches, July 28, Tarragona, Spain

### RESEARCH VISITS

- 2017** Mayo Clinic, Rochester, Biomedical Ethics Program under the supervision of Dr. Sharp  
(July 10 to August 18)
- 2010** Technical University Eindhoven (Netherlands), Department of Mathematics and Computer  
Science under the supervision of Dr. Will van der Aalst (1 to 30 April)
- 2009** Rovira i Virgili University (Spain), under the supervision of Dr. Gemma Bel-Enguix (16 to  
22 December)
- 2008** BioMedical Informatics Research department, Stanford University (USA), under the  
supervision of Mor Peleg, PhD (27 to 31 October)
- 2007** Centre for Intelligent Systems and Applications, School of Informatics, Edinburgh  
University, under the supervision of David Robertson, PhD (October to November)
- 2006** Department of Computer and Information Science, Brooklyn College, City University of  
New York, supervised by Simon Parsons, PhD (August 2006 to January 2007)
- 2005** Centre for Intelligent Systems and Applications, School of Informatics, Edinburgh  
University, under the supervision of David Robertson, PhD (September to December)

### VISITING SCHOLARS

- 2018** Eogham Mc Conalogue, Assistant Professor in the Department of Management, Dublin City  
University, Ireland
- 2017** Areti Manataki, PhD, Senior Researcher in the School of Informatics at the University of  
Edinburgh, Scotland  
Collaborated on the automatic analysis of log files generated by Mayo Clinic's information  
systems (ROOT project), July-September
- 2017** Harri Honko, MSC, Tempere University of Technology, Finland  
Collaborated on the development of a standard-based electronic consent tool (My Data  
Choices), August 1 to 30

### ONGOING GRANTS & FELLOWSHIPS

- 2020-2021** **Women in the American Medical Informatics Association, Seed Grant**  
**American Medical Informatics Association Podcasts**  
The aims are to produce podcasts for the American Medical Informatics Association (AMIA)  
that (1) attract people from underrepresented groups into the biomedical informatics field (2)  
can be used in multipurpose settings, such as education (3) add underrepresented groups to the  
AMIA/biomedical informatics pipeline (4) teach practical aspects of biomedical informatics  
\$5,000, CO-PI: NA
- 2020-2023** **Arizona Partnership for Economic Innovation (AZPEI)**  
**Blockchain Applied Research Lab (BARC)**  
The ASU Blockchain Research Lab's mission is to advance the research and development  
of blockchain-based technologies in the areas of healthcare, business, finance, economics,  
mathematics, computer science, and all other areas of potential impact. The goal is to  
partner with industry leaders to solve real-world problems.  
\$1,000,000, CO-I: 10%
- 2016-2021** **National Institute of Mental Health**  
**My Data Choices, evaluation of effective consent strategies for patients with**  
**behavioral health conditions (R01MH108992)**

The goal is to improve the understanding of behavioral health patients' and surrogates' data sharing preferences for care and for research. The deliverables for this project are: (1) terminology-based data sharing taxonomies meaningful for patients; (2) deployment and testing of an Informed Consent Management system, 'MyChoice', and a Trusted Broker to support granular control over data sharing within a behavioral health information exchange; (3) results of the evaluation of the proposed tools; and (4) dissemination of open-source code and lessons learned on clinical, ethical, policy, regulatory and technology research implications

\$2,063,956, PI: 25%

#### COMPLETED GRANTS & FELLOWSHIPS

- 2017-2019 Mayo Clinic Office of Information and Knowledge Management  
ROOT (Registry Of Operations and Tasks)**  
\$815,000, Co-I: 10%
- 2018 ASU and Mayo Clinic Research Accelerator Grant 2018 for Collaborative Health  
Care Delivery Science**  
**Data-driven behavioral-change individualized interventions to improve type 1  
diabetes treatment adherence**  
\$219,679, Co-PI: 9%
- 2017 Mayo Clinic-ASU Alliance Fellowship.**  
Expenses support for a 6-weeks research visit to Mayo Clinic, Biomedical Ethics Program,  
Rochester.  
\$5,072, Fellow: 100%
- 2014-2016 National Library of Medicine**  
**Patient-centered decision support based on device data (I DECIDE) (R21LM011667)**  
\$275,000, PI: 25%
- 2012-2013 National Heart Lung and Blood Institute**  
**iDASH: integrating Data for Analysis, Anonymization, and Sharing, Ethics  
Complement (1U54HL108460 S1)**  
Postdoctoral fellow
- 2012-2013 Patient-Centered Outcomes Research Institute (PCORI) (PCOInvNtw2012)**  
**Comprehensive Repository of Research Networks**  
Postdoctoral fellow
- 2012 Engineering and Physical Sciences Research Council (EPSRC), UK**  
**Computer-based modelling for safe intra-hospital patient transfers**  
£10,563, Co-PI: 10%
- 2011-2013 National Heart Lung and Blood Institute**  
**iDASH: integrating Data for Analysis, Anonymization, and Sharing  
(1U54HL108460)**  
Postdoctoral fellow
- 2011-2012 The clinical decision support consortium for AHRQ CDS Research  
(HHS290200810010)**  
Postdoctoral fellow
- 2009 Engineering and Physical Sciences Research Council (EPSRC), UK**  
Travel grant
- 2007 Ministry of Education and Science of Spain**  
Travel grant
- 2006-2007 Ministry of Education and Science of Spain**

- 2005 Travel grant  
**Ministry of Education and Science of Spain**  
Travel grant
- 2005-2008 **Ministry of Education and Science of Spain**  
PhD research fellowship
- 2003-2004 **Rovira I Virgili University, Spain**  
PhD research fellowship

HONORS AND AWARDS

- 2020 Nominated for ASU Graduate College Outstanding Faculty Mentor Award
- 2019 Selected for the 2019 AMIA Women in Leadership training program
- 2019 Nominated for Best Mentor, ASU College of Health Solution
- 2018 College Marshal for the ASU College of Health Solution
- 2017 Faculty of the year, ASU College of Health Solution
- 2017 Outstanding reviewer (1% top reviewer), Journal of Biomedical Informatics
- 2016 College Marshal for the ASU College of Health Solution
- 2016 Moderate Panel selection, 'Understanding Self-Management Behaviors to Improve Insulin Dosing', American Diabetes Association, 76<sup>th</sup> Scientific Sessions 2016
- 2015 ASU Devils' Advocates Apple Polisher recognition for commitment and dedication to students
- 2012 Best poster 'Can we facilitate research by maximizing data and biosample utility while complying with subject's consent?' Advancing Ethical Research Conference. San Diego
- 2009 Honors, Excellent cum laude, PhD graduation from University Rovira i Virgili
- 2001 Best MCS student award, Universidad Nacional de Rio Cuarto, Argentina

MEMBERSHIPS AND AFFILIATIONS

- 2015-present Healthcare Information and Management Systems Society (HIMSS), Arizona Chapter
- 2012-present American Medical Informatics Association (AMIA)

CHS AFFINITY NETWORKS

- 2019-present Biomedical Informatics Affinity Network, Co-investigator

COURSES TAUGHT AT ASU

<i>Year</i>	<i>Semester</i>	<i>Type</i>	<i>Course</i>	<i>Credits</i>
2021	Spring	Online, graduate	Applied Project (BMI 593)	3
2020	Fall	Hybrid, graduate	Fundamentals of Health Informatics (BMI 601)	3
2019	Fall	Hybrid and online, graduate	Fundamentals of Health Informatics (BMI 601)	3
2019	Spring	In-person graduate	Reading and Conference	3
2019	Spring	In-person, undergraduate	Individualized Instruction	3
2019	Spring	Online, graduate	Fundamentals of Health Informatics (BMI 601)	3
2019	Spring	In-person, graduate	Applied Project (BMI 593)	3
2018	Fall	Hybrid and online, graduate	Fundamentals of Health Informatics (BMI 601)	3

2018	Spring	In-person, undergraduate	Honors Thesis (BMI 493)	3
2018	Spring	In-person, undergraduate	Individualized Instruction (BMI 499)	3
2018	Spring	In-person, graduate	Research (BMI 792)	6
2018	Spring	In-person, graduate	Applied Project (BMI 593)	3
2018	Spring	In-person, undergraduate	Capstone (BMI 483)	3
2017	Fall	In-person, undergraduate	Honors thesis (BMI 493)	3
2017	Fall	In-person, graduate	Research (BMI 792)	6
2017	Fall	In-person, undergraduate	Internship (BMI 484)	3
2017	Summer	In-person, graduate	Applied Project (BMI 593)	3
2017	Summer	In-person, graduate	Dissertation (BMI 799)	3
2017	Summer	In-person, undergraduate	Internship (BMI 484)	3
2017	Summer	In-person, graduate	Research (BMI 792)	6
2017	Spring	In-person, undergraduate	Individualized Instruction (BMI 499)	3
2017	Spring	In-person, graduate	Applied Project (BMI 593)	3
2017	Spring	In-person, graduate	Dissertation (BMI 799)	3
2017	Spring	Hybrid and online, graduate	Fundamentals of Health Informatics (BMI 601)	3
2016	Fall	In-person, graduate	Teaching Biomedical Informatics (BMI 560)	1
2016	Fall	In-person, graduate	Research (BMI 792)	6
2016	Fall	In-person, undergraduate	Honors Directed Study (BMI 492)	3
2016	Fall	In-person, graduate	Applied Project (BMI 593)	3
2016	Fall	Hybrid and online, graduate	Fundamentals of Health Informatics (BMI 601)	3
2016	Summer	In-person, graduate	Research (BMI 792)	6
2016	Spring	In-person, graduate	Research (BMI 792)	6
2016	Spring	In-person undergraduate	Individualized Instruction (BMI 499)	3
2016	Spring	In-person, undergraduate	Introduction to Clinical Informatics (BMI 201)	3
2016	Spring	Online, graduate	Fundamentals of Health Informatics (BMI 601)	3
2015	Fall	In-person, graduate	Applied Project (BMI 593)	3
2015	Fall	In-person, undergraduate	Individualized Instruction (BMI 499)	3
2015	Fall	In-person, undergraduate	Internship (BMI 484)	1
2015	Summer	In-person, graduate	Research (BMI 592)	1
2015	Spring	In-person, graduate	Reading and Conference (BMI 590)	1
2015	Spring	In-person, undergraduate	Introduction to Clinical Informatics (BMI 201)	3
2015	Spring	In-person, graduate	Research (BMI 592)	3
2015	Spring	In-person, graduate	Biomedical Informatics Symposium (BMI 570)	1
2014	Fall	In-person, graduate	Research (BMI 592)	3
2014	Fall	In-person, graduate	Biomedical Informatics Symposium (BMI 570)	1
2014	Summer	In-person, graduate	Reading and Conference (BMI 590)	1
2014	Spring	In-person, graduate	Clinical Decision Support (BMI 506)	3

COURSES CREATED AT ASU

<i>Year</i>	<i>Semester</i>	<i>Type</i>	<i>Course</i>	<i>Credits</i>
2020	Fall	In-person, graduate	App Development for Clinical and Population Health (BMI 310)	3
2016	Fall	Hybrid, graduate	Fundamentals of Health Informatics (BMI 601) * First hybrid course in the College of Health Solutions, ASU	3
2016	Spring	Online, graduate	Fundamentals of Health Informatics (BMI 601)	3
2015	Spring	In-person, undergraduate	Introduction to Clinical Informatics (BMI 201)	3
2014	Spring	In-person, graduate	Clinical Decision Support (BMI 506)	3

PhD STUDENTS MENTORED

<i>Role</i>	<i>Trainee Name</i>	<i>Institution</i>	<i>Training Period</i>	<i>Research Project</i>	<i>Current job</i>
Chair	George Karway	ASU	2019-present	My Data Choices	NA
Co-chair	Benjamin Duncan	ASU	2018-present	ROOT	NA
Chair	Hiral Soni	ASU	2016-2020	My Data Choices	Innovation Associate, doxy.me
Chair	Danielle Groat	ASU	2015-2017	iDECIDE	Senior statistical analyst, Intermountain Healthcare
Co-chair	Stephanie Furniss	ASU	2015-2017	Modeling clinicians' cognitive and collaborative workflow in post-operative hospital care	Data science manager, ASU
Co-chair	Ashwag Omar Maghraby	Edinburgh University	2011-2013	Bridging the specification protocol gap in argumentation	Assistant Professor, Computer Science, Umm Al-Qura University, Saudi Arabia
Co-chair	Shahriar Bijani	Edinburgh University	2010	Securing open multi-agent systems governed by electronic institutions	Assistant Professor, Head of Computer Science Department, Shahed University

MEDICAL DOCTOR STUDENTS MENTORED

<i>Role</i>	<i>Trainee Name</i>	<i>Training Period</i>	<i>Research Project</i>
Chair, Research Distinction Track, College of Medicine, University of Arizona	Ruoyang Li	2020-2022	My Data Choices
Chair, Research Distinction Track, College of Medicine, University of Arizona	Tianyu Tang	2018-2020	My Data Choices

TEACHING ASSISTANTS MENTORED

<i>Trainee Name</i>	<i>Training Period</i>	<i>Course</i>
George Karway	Fall 2019	BMI 601
Hiral Soni	Fall 2016	BMI 601

MASTER STUDENTS MENTORED AT ASU

<i>Role</i>	<i>Program</i>	<i>Trainee Name</i>	<i>Training Period</i>	<i>Research Project</i>
Chair	Health Informatics	Jennifer Afuakwa	present	Systematic review of COVID-19 smartphone apps
Chair	Biomedical Informatics	Basam Alasaly	present	Medical devices digital twins and their supply chain management on blockchain
Member	Computer Science	Kaushal Mhalgi	present	Medical devices digital twins and their supply chain management on blockchain
Chair	Health Informatics	Osa Crago	2020	Clinical trial recruitment app design
Chair	Health Informatics	Jason Bryan	2020	Blockchain-based system for inventory and traceability with application in medical device supply chain management
Chair	Computer Science	Manish Vishnoi	2020	MedFabri4Me: Blockchain based patient-centric Electronic Health Record system
Chair	Computer Science	Aditya Deotale	2020	Automatic discovery of patient perioperative clinical pathways from event logs
Chair	BMI	George Karway	2019	Comparing survey and app data to understand type 1 diabetes self-management behaviors
Chair	BMI	Krystal Corrette	2019	Interview analysis of personalized type 1 diabetes interventions
Chair	BMI	Mike Bayuk	2018	Personalized type 1 diabetes interventions
Co-chair	BMI	Madhumita Mukundan	2018	My Data Choices
Chair	BMI	Wentao Zhou	2017	My Data Choices
Chair	BMI	Marcela Aliste Gomez	2017	My Data Choices



Chair	BMI	Patricia Davis	2016	Understanding the Arizona's controlled substance prescription drug monitoring program
Chair	BMI	Hiral Soni	2016	iDECIDE
Co-chair	BMI	Freeman Jabari	2016	Evaluation of Thiopurine-TPMT pharmacogenomics rule and alert, Mayo Clinic experience
Chair	BMI	Srividya Mahankali	2016	Study to elicit behavioral health patients and providers opinions on health records consent
Chair	BMI	Varun Datt	2016	Drug5Rights: improving medication administration workflow
Chair	BMI	Satya Vemparala	2016	EverydayParenting: mobile application for parents
Chair	BMI	Danielle Groat	2015	Comparison of two tools, Phenotype Portal and PROM, for retrospectively checking clinical guideline compliance
Co-chair	BMI	Craig Cott	2015	A cognitively-driven, knowledge-based EHR user interface design for outpatient psychiatry
Co-chair	BMI	Sahithya Dhamodharan	2015	A semantically enhanced clinical decision support artifact management repository prototype

#### UNDERGRADUATE STUDENTS MENTORED AT ASU

<i>Role</i>	<i>Program</i>	<i>Trainee Name</i>	<i>Training Period</i>	<i>Research Project</i>
Chair	BMI	Hunter Dyer	2020	My Data Choices
Chair, Barret Honors <sup>1</sup>	BMI	Tina Kaing	2020	My Data Choices
Chair, Barret Honors	BMI	Idouraine Nassim	2019	My Data Choices
Chair	BMI	Hyo (Patrick) Kwon	2018	My Data Choices
Chair, Barret Honors	BMI	Additya Ponnappalli	2018	Controlled substance prescription drug monitoring programs
Chair, Barret Honors	BMI	Megan Hiestand	2018	My Data Choices
Co-chair	BMI	Joshi Rajan	2015	Integration of Title 42 Code of Regulations Part 2 in Arizona's health information exchange

<sup>1</sup> Barrett Honors is a special program that requires a thesis defense.

Co-chair	BMI	Emanuel Becquer	2015	Health plan participation and value proposition in Arizona's health information exchange
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#### OTHER TEACHING & PEDAGOGICAL CONTRIBUTIONS

<b>2020</b>	<i>CHS teaching peer review: review of POP 100 course and outcome report</i>
<b>2020</b>	<i>Invited Speaker: 'Behavioral Health Professionals' Views on Granular Data Sharing' for BMI 570 graduate-in person course, ASU</i>
<b>2020</b>	<i>Invited Speaker: 'Team Work Approach to Improve Type 1 Diabetes Treatment Adherence' for BMI 332 graduate in-person course, ASU</i>
<b>2018-2020</b>	<i>Invited Speaker: 'Data-Driven Behavioral-Change Interventions to Improve Type 1 Diabetes Treatment Adherence' for BMI 461 undergraduate in-person course, ASU</i>
<b>2016 -2017</b>	<i>Invited Speaker: 'Introduction to the Unified Modeling Language' for BMI 332 graduate in-person course, ASU</i>
<b>2016</b>	<i>Invited Speaker: 'Introduction to Workflow Modelling,' for BMI 221 undergraduate in-person course, ASU</i>
<b>2015</b>	<i>Invited Speaker: 'A light introduction to Consumer Health Informatics,' for BMI 101 undergraduate in-person course, ASU</i>
<b>2014-2015</b>	<i>Invited Speaker: 'How to build your own Clinical Decision Support System?,' for BMI 501 graduate in-person course, ASU</i>
<b>2014</b>	<i>Invited Speaker: 'A light introduction to Consumer Health Informatics,' for BMI 101 undergraduate in-person course, ASU</i>
<b>2012</b>	<i>Invited Speaker: 'Introduction to Knowledge Representation,' 'Introduction to Ontologies' for graduate in-person course on Clinical Decision Support, Division Biomedical Informatics, University of California, San Diego</i>
<b>2012</b>	<i>Invited Speaker: 'Introduction to Protege and OWL' for graduate in-person course on Modeling clinical data and knowledge for computation, Division Biomedical Informatics, University of California, San Diego</i>
<b>2012</b>	<i>Supervision of San Diego Super Computer summer intern. Division of Biomedical Informatics, University of California, San Diego</i>
<b>2012</b>	<i>Supervision of iDASH graduate summer intern. Division of Biomedical Informatics, University of California, San Diego</i>
<b>2011</b>	<i>Supervision of San Diego Super Computer summer interns. Division of Biomedical Informatics, University of California, San Diego</i>
<b>2009</b>	<i>Invited speaker: 'Contributions of Formal Language to the Theory of Dialogues' for in-person course Introduction to Language and Computation, undergraduate degree in Linguistics, Rovira i Virgili University, Spain</i>
<b>2002</b>	<i>Teaching Assistant: Introduction to programming and Advanced programming, undergraduate in-person courses in Computer Science, UNRC, Argentina</i>
<b>1998-2001</b>	<i>Tutor of undergraduate courses: Introduction to programming, Advanced programming, Data Bases, and Algebra, for the undergraduate in-person courses in Computer Science, UNRC, Argentina</i>

#### AWARDS RECEIVED BY MENTORED STUDENTS

<b>2021</b>	American Medical Informatics PhD Dissertation Award, nomination from the ASU Department of Biomedical Informatics, Daniel Groat
<b>2020</b>	Nomination for best student paper at the AMIA Annu Symp 2020, Lu Zheng

- 2020** College of Health Solutions Outstanding Graduate Student Award, Hiral Soni
- 2020** Fulbright Study Abroad Program award, Megan Hiestand.
- 2019** Community Choice Award at the NuCypher + CoinList Spring Hackathon, Manish Vishnoi
- 2019** ASU Biological Sciences nomination for the 2019 Council of Graduate Schools ProQuest PhD Distinguished Dissertation Awards, Danielle Groat. Appeared in the ASU News: <https://graduate.asu.edu/node/484>
- 2019** ASU Biomedical Informatics, University Graduate Fellowship, Hiral Soni
- 2018** ASU BMI and Mayo Clinic Employer Networking and Student event, best poster, Aditya Ponnappalli (undergraduate)
- 2018** American Medical Informatics PhD Dissertation Award, nomination from the ASU Department of Biomedical Informatics, Daniel Groat
- 2018** Arizona Chapter of Health Information and Management Systems Society, Graduate Student Scholarship, Hiral Soni
- 2016** ASU Biomedical Informatics, University Graduate Fellowship, Daniel Groat
- 2015** Arizona Chapter of Health Information and Management Systems Society, Graduate Student Scholarship, Daniel Groat

### PEDAGOGICAL SCHOLAR CONTRIBUTIONS

- 2020** Panelist, “Training Women for Leadership in Informatics and Digital Health: A Report from the Inaugural Women in AMIA Leadership Program”, AMIA Annual Symposium, November 14-18, Virtual Event
- 2020** Design educational content for the AMIA podcasts, in collaboration with the AMIA Informatics Educator Forum
- 2019** Session Chair, “Improving Graduate Education in Health Informatics”, AMIA Informatics Educator Forum Conference, June 18-20, St Louis, Missouri
- 2019** Panelist, “Informatics for Undergraduates: View from the Trenches”, AMIA Informatics Educator Forum Conference, June 18-20, St Louis, Missouri
- 2019** Poster on “Applying evidence-based effective teaching practices: lessons learned”, AMIA Informatics Educator Forum Conference, June 18-20, St Louis, Missouri
- 2018-present** ASU representative, AMIA Full Academic Forum Member Program
- 2018** Session chair, “Strategies for Curriculum Development” panel, AMIA Informatics Educator Forum, June 20, New Orleans, Louisiana
- 2018** Panel chair, “How to better prepare informatics students to succeed in the workforce?”, AMIA Informatics Educator Forum, June 19, New Orleans, Louisiana
- 2018** Program Committee, AMIA Informatics Educator Forum

### PEDAGOGICAL TRAINING

- 2020** VoiceThread in Canvas, ASU Online, 90 minutes
- 2018** Effective Teaching Practices Certification, American Council of Education, Association of College and University Educators, 6 months online course
- 2018** Canvas Training, ASU College of Health Solutions, 3 hours in-person
- 2016** Teaching Internship and Best Practices in University Teaching (EXW 784), ASU College of Health Solutions, one semester in-person course

### SERVICE

#### *Journal Editor*

- Frontiers in Digital Health

*Journal Reviewer*

- Applied Clinical Informatics
- Applied Sciences
- Data
- Endocrien and Metabolic Science
- Health Informatics
- Hispanic Healthcare International
- Health Affairs
- Journal of the American Medical Informatics Association
- Journal of Artificial Intelligence in Medicine
- Journal of Biomedical Informatics
- Journal of Computers in Biology and Medicine
- Journal of Computer Methods and Programs in Biomedicine
- Journal of Multidisciplinary Healthcare

*International and National Committees*

- 2020-2023** Women in the American Medical Informatics (AMIA) Steering Committee
- 2020-2023** Women in the American Medical Informatics Association (AMIA) Networking, Mentoring and LifeCycle Committee
- 2020-2023** American Medical Informatics (AMIA) Award Committee
- 2018-present** American Medical Informatics Association (AMIA), Academic Forum
- 2016-present** American Medical Informatics Association (AMIA), Consumer and Pervasive Health Informatics Working Group & Clinical Decision Support Working Group

*International and National Scientific Events*

- 2021** Program committee, International Conference on Artificial Intelligence in Medicine (AIME 2021), Porto, Portugal, June 16-19
- 2020** Senior program committee, International Conference on Artificial Intelligence in Medicine (AIME 2020), Minneapolis, USA, August 26-29
- 2020** Program committee, HealthInfo 5th International Conference on Informatics and Assistive Technologies for Health-Care, Medical Support and Wellbeing, Porto, Portugal, October 18-22
- 2019** Program committee, 8<sup>th</sup> International Conference on Global Health 2019, Porto, Portugal, September 22-26
- 2019** Program committee, HealthInfo 2019, 4<sup>th</sup> International Conference on Informatics and Assistive Technologies for Health-Care, Medial Support and Wellbeing, Valencia, Spain, November 24-28
- 2019** Scientific Program Committee, American Medical Informatics Association (AMIA) 2019 Annual Symposium, Washington, November 16-20
- 2019** Technical program committee, Eleventh International Conference on eHealth, Telemedicine, and Social Medicine (eTELEMED 2019), Athens, Greece, February 24 -28
- 2019** Program committee, Artificial Intelligence in Medicine Conference (AIME 2019), Poznan, Poland, June 26-29
- 2018** Program committee, 7<sup>th</sup> International Conference on Global Health 2018, Athens, Greece, November 18-22 Program committee, 10<sup>th</sup> International Conference on eHealth, Telemedicine, and Social Medicine (eTELEMED) 2018, Rome, Italy, March 25-29
- 2017** Program committee, 6<sup>th</sup> International Conference on Global Health 2017, Barcelona, Spain, November 12-16

- Program committee, HealthInfo 2017, 2<sup>th</sup> International Conference on Informatics and Assistive Technologies for Health-Care, Medial Support and Wellbeing, Athens, Greece, October 8-12
- 2017**
- Program committee, Artificial Intelligence in Medicine Conference (AIME 2017), Vienna, Austria, June 21-24
- 2015**
- Program committee, Artificial Intelligence in Medicine Conference (AIME 2015), Pavia, Italy, June 17-20
- 2015**
- Program committee, 6<sup>th</sup> International Workshop on Knowledge Representation for Health Care (KR4HC'14). Vienna, Austria, July 21
- 2014**
- Program committee, 7<sup>th</sup> International Workshop on Process-oriented Information Systems in Healthcare (ProHealth'14). Haifa, Israel, September
- 2014**
- Program committee, Artificial Intelligence in Medicine Conference (AIME 2013), Murcia, Spain, May 29-June 1
- 2013**
- Program committee, 6<sup>th</sup> International Workshop on Process-oriented Information Systems in Healthcare & 5<sup>th</sup> International Workshop on Knowledge Representation for Health Care (ProHealth'13 / KR4HC'13). Murcia, Spain, June 1
- 2013**
- Program committee, 5<sup>th</sup> International Workshop on Process-oriented Information Systems in Healthcare & 4<sup>th</sup> International Workshop on Knowledge Representation for Health Care (ProHealth'12 / KR4HC'12). Tallinn, Estonia, September 13
- 2012**
- Program committee, Artificial Intelligence in Medicine Conference (AIME 2011) Slovenia, July 2-7
- 2011**
- Organizing committee, 3<sup>rd</sup> International Workshop on Knowledge Representation for Health-Care (KR4HC)
- 2011**
- Organizing committee, ProHealth 2011, 4<sup>th</sup> International Workshop on Process-oriented Information Systems in Healthcare, 9<sup>th</sup> International Conference on Business Process Management (BPM'11) Clermont-Ferrand, France, August 29
- 2010**
- Organizing committee, 2<sup>nd</sup> International Workshop on Knowledge Representation for Health-Care (KR4HC), 19<sup>th</sup> European Conference on Artificial Intelligence (ECAI 2010) Lisbon, Portugal, August 16
- 2010**
- Session chair, International Conference on Health Informatics (HealthInf 2010) Rome, Italy, January 26-29
- 2008-2011**
- Organizer of the Centre of Information Systems and Applications (CISA) weekly seminars, School of Informatics of the University of Edinburgh, November 2008 - February 2011
- 2007**
- Organizing committee, 1<sup>st</sup> International Conference on Language and Automata Theory and Applications LATA, March 29- April 4 2007, Tarragona, Spain
- 2007-2008**
- Organizer of the PhD School in Formal Languages and Applications weekly seminars, University Rovira i Virgili

*International and National Conference Reviewer*

- 2019** American Medical Informatics Association (AMIA) Clinical Informatics Conference, Seattle
- 2018** American Medical Informatics Association (AMIA) Year in Review, Consumer and Pervasive Health Informatics Working Group
- 2015-present** American Medical Informatics Association (AMIA) Annual Summit
- 2015** 15<sup>th</sup> Conference of Artificial Intelligence in Medicine (AIME), Pavia, Italy
- 2013** American Medical Informatics Association (AMIA) Summit on Clinical Research Informatics, San Francisco, US
- 2013-present** World Congress on Medical and Health Informatics (MEDINFO)

- 2012** 14<sup>th</sup> Conference of Artificial Intelligence in Medicine (AIME), Murcia, Spain  
American Medical Informatics Association (AMIA) Annual Symposium poster judge, Chicago, US
- 2011** IEEE International Conference on Healthcare Informatics, Imaging and Systems Biology (HISB 2011), San Jose, US
- 2010** 13th World Congress on Medical and Health Informatics (MEDINFO), Cape Town, South Africa
- 2010** 8th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2010), Special Sessions and Workshops, Salamanca, Spain
- 2009** 2th Conference on Artificial Intelligence in Medicine (AIME'09), Verona, Italy

*International and National Grant Reviewer*

- 2020** Biomedical Computing and Health Informatics Study Section (NIH): R01, R21, R03, R15
- 2019** National Institute on Drug Abuse (NIDA), R43/R44 “Blockchain Technology to Improve Substance Use Disorder Care”
- 2019** Agency for Healthcare Research and Quality (AHRQ), R03
- 2016** Juvenile Diabetes Research Foundation (JDRF)
- 2012** Netherlands Organization for Scientific Research

*ASU Committees*

- 2020-present** Senator for CHS, ASU
- 2019-present** Admission Committee for Biomedical Informatics, ASU College of Health Solution
- 2019-present** Committee of Committees, ASU College of Health Solution
- 2019-present** BMI/BMD Faculty Meeting, ASU College of Health Solution
- 2018-present** Faculty Service, ASU College of Health Solution
- 2018-present** Fellowship Review Committee, ASU Graduate College, member
- 2018** Success Hub Research, ASU College of Health Solutions, member
- 2018-2019** Faculty Recruitment Committee, ASU Biomedical Informatics, member
- 2016-2017** Faculty Recruitment Committee, ASU Department Biomedical Informatics, Chair
- 2014-2017** Standards and Grievances Committee, ASU College of Health Solutions, member
- 2014-2016** Faculty Recruitment Committee, ASU Department Biomedical Informatics, member
- 2014** Academic Program Committee, ASU Department Biomedical Informatics, member

COMMUNITY ENGAGEMENT, CARREER DEVELOPMENT & STUDENT RECRUITMENT

- 2020** Organizer of the American Medical Informatics Association (AMIA) virtual special event on “Career Development for Women”, November 17
- 2020** Creation of the American Medical Informatics Association (AMIA) Women in Leadership Program videos to promote Women in Leadership
- 2020** Organizer of the Committee for Biomedical Informatics Research Day, College of Health Solutions
- 2019** Students of Biomedical Informatics (SoBMI) Faculty Panel on BMI research opportunities, College of Health Solutions
- 2019** College of Health Solutions, student recruitment activity representing biomedical informatics program, June 28
- 2018** AMIA Informatics Educator Forum videos to promote ASU biomedical informatics programs: What do you enjoy most about BMI?, What are you going to do with BMI?
- 2018** American Medical Informatics Association Annual Symposium, student recruitment booth
- 2018** Interview of prospective PhD students

<b>2017-present</b>	Health Current Summit and Trade Show, representative for BMI
<b>2018</b>	Annual Biomedical Research Conference for Minority Students (ABRCMS), judge
<b>2017</b>	Florence Crittenton, INSPIRE speaker. Role model for female students who have been
<b>2016-2017</b>	victims of sexual and psychologic abuse
<b>2015</b>	Kids Health Fair, volunteer. Worked as Spanish translator for clinical staff that provided
	helath services for children
<b>2014</b>	Mountain Pointe High School, Women's Mentor Day, speaker
<b>2014</b>	Grace Hopper Conference, Women in Computer Science, student recruitment booth

#### ACADEMIC & PROFESSIONAL DEVELOPMENT

<b>2020</b>	American Medical Informatics (AMIA) Virtual Informatics Summit, March 23-26
<b>2019-2020</b>	American Medical Informatics (AMIA) Women in Leadership Program (12 months)
<b>2019</b>	Dissemination and Implementation Research Program, Arizona Biomedical Research
	Commission (ABRC), Arizona Department of Health Services (12 months)
<b>2018</b>	Research and Scholarship Group, ASU College of Health Solutions (4 months)
<b>2017</b>	Qualitative Data Analysis: The Basics, ASU Institute of Social Science Research (1 day)
<b>2016</b>	Academic Personnel Search Workshop, ASU Vice Provost for Academic Personnel (3 hours)
	Introduction to FDA Investigational Device Exemption, ASU Office of Knowledge
<b>2016</b>	Enterprise Development (1 day)
	Workshop on University Promotion and Tenure Track Discussion, ASU Faculty Women's
<b>2016</b>	Association (2 hours)
<b>2015</b>	NIH Writing Conference, ASU Office of Knowledge Enterprise Development (1 day)
<b>2012</b>	Introduction to Biomedical Ontology for Clinical and Translational Research, The National
	Center for Biomedical Ontology (2 days)
<b>2012</b>	Introduction to Clinical Environments, Division of Biomedical Informatics, University of
	California, San Diego (4 months)
<b>2012</b>	Statistics, Division of Biomedical Informatics, University of California San Diego (4 months)
<b>2012</b>	Intelligent Decision Support Systems: theory, algorithms, and applications, Advanced Course
	in Artificial Intelligence '09, United Kingdom (4 months)
<b>2012</b>	Software testing, Computer Science Department, UNRC, Argentina (1 day)
<b>2009</b>	Integration of formal methods in the process of software development, Computer Science
	Department, UNRC, Argentina (1 day)
<b>2009</b>	Verification of sequential and conpresent programs, Computer Science Department, UNRC,
	Argentina (1 day)
<b>2003</b>	Conpresent programming, Computer Science Department, UNRC, Argentina (1 day)
<b>2002</b>	Computational Complexity, Computer Science Department, UNRC, Argentina (1 day)
<b>2001</b>	Program calculus, Computer Science Department, UNRC, Argentina (1 day)
<b>1999</b>	Introduction to computability, Computer Science Department, UNRC, Argentina (1 day)
<b>1998</b>	Temporal logics and their applications in Computer Science, IV Argentinean Congress of
	Computer Science CACIC, Neuquen, Argentina (1 day)

#### LANGUAGES

- Spanish, native speaker
- English, very good (First Certificate, University of Cambridge)
- Catalan, good (Basic I, Basic II Generalitat de Catalunya)