Deryc T. Painter, Ph.D.

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Current position

Assistant Research Professor, School of Complex Adaptive Systems, Arizona State University

Areas of specialization

Social Network Analysis • History of Science • Computational Linguistics • Data Science

Education

2011	AS in Science, Yavapai College, Prescott, AZ
2013	BS in Biology, Arizona State University, Tempe, AZ
2019	РнD in Biology (Biology and Society), Arizona State University, Tempe, AZ

Grants, honors & awards

2011	All Arizona Academic Team, Arizona Board of Regents
2013	Barrett Honor's College Graduate
2014	Travel Award, HSS-PSA 2014 Annual Meeting
2015	Travel Award, ACMES Annual Meeting
2015	Honorable Mention, Poster Session, CCS 2015
2016	Travel Award, SIAM Annual Meeting

Publications & Presentations

INVITED TALKS

2019

	INVITED TREAS
2014	"Detecting Scientific Innovation" presented at HSS-PSA 2014 Annual Meeting, Chicago, IL with Manfred Laubichler
2015	"Agent-based Models and Co-authorship: Applications in the History of Science" presented at <i>ACMES Annual Meeting</i> , London, ON, CA
2016	"Evolution of Co-authorship Networks as a Measure of Interdisciplinarity" presented at <i>SIAM Annual meeting</i> , Chicago, IL
2016	"How Does Something Genuinely New Emerge in Evolution and History?" presented at 2016-2017 Center for Biology and Society Conversation Series, Arizona State University https://cbs.asu.edu/center-biology-and-society-conversation-series

"Agnostically Identifying Scientific Innovations in a Knowledge Landscape" presented at the Northwestern Institute on Complex Systems (NICO), Northwestern University, Evanston, IL

"Finding Innovations" presented at Collective Intellegence 2020, digital conference

PUBLICATIONS

2020

- Painter, Deryc T. (2013), "The Effects of the Eurasian Collared Dove on Native Dove Populations in Arizona", *Honors Thesis*.
- Bliss, Nadya T., Peirson, B. R. Erick, Painter, Deryc T., Laubichler, Manfred D. (2014), "Anomalous subgraph detection in publication networks: Leveraging truth", 48th Asilomar Conference on Signals, Systems, and Computers pp.2005–2009.
- Painter, Deryc T. (2019), "Computational Interdisciplinarity: a study in the History of Science", *PhD Thesis*.
- Painter, Deryc T., Daniels, Bryan C., Jost, Jürgen (2019), "Network Analysis for the Digital Humanities: principles, problems, extensions", *ISIS* 110 (3) pp.538-554.
- Painter, Deryc T., van der Wouden, Frank, Laubichler, Manfred D., Youn, Hyejin (2020), "Quantifying simultaneous innovations in evolutionary medicine", *Theory in Biosciences* 139(4) pp.319-335
 Painter, Deryc T., Daniels, Bryan C., Laubichler, Manfred D. (2021), "Innovations are Disproportionately Likely in the Periphery of a Scientific Network", *Theory in Biosciences* 140(4) pp.391-399
- Painter, Deryc T., Shutters, Shade T., Wentz, Elizabeth (2021) "Innovations and Economic Output Scale with Social Interactions in the Workforcet" *Urban Science* 5(1) pp. 21
- Painter, Deryc T., Kempes, Chris, West, Geoffrey, Laubichler, Manfred D. (2021) "The Four Regimes of the Great Acceleration" *The Anthropocene Review (in review)*
- Painter, Deryc T., Damerow, Julia, Laubichler, Manfred D. (2021) "Evolution of Evolutionary Medicine", The Dynamics of Science: Computational Frontiers in History and Philosophy of Science", Pittsburg University Press, (ed. Ramsey, Grant and De Block, Andreas) (in press)

Teaching

2013-2018	Teaching assistant, BIO 340: General Genetics, Arizona State University
2015	Team Member, BIO 340: General Genetics Curriculum Reform, Arizona State University
2019	Adjunct Professor, BIO 100: Biology Concepts, Mesa Community College
2019	Adjunct Professor, CDH 580: Computational and Digital Humanities Lab, Arizona State University
2020	Adjunct Professor, BIO 100: Biology Concepts, Chandler-Gilbert Community College
2021-2022	Assistant Research Professor, CAS 521: Network Analytics for Complex Adaptive Systems, Ari-
	zona State University

Outreach

2010-2011	Volunteer Student Teacher, Mile High Middle School, Prescott, AZ
2011	Reviewer, Math and Science Bowl, Yavapai College, Prescott, AZ
2013-2014	Volunteer, Graduate Partners in Science Education, Eagle College Prep Academy, Phoenix, AZ
2014	Volunteer Web Developer, Journal of Evolution, Medicine, and Public Health
2014	Volunteer Web Developer, Center for Biology and Society, Arizona State University, Phoenix, AZ
2014-2017	Content Creator, Ask A Biologist, Arizona State University, Phoenix, AZ
2018-2021	Board Member and Chief Grant Writer, Educational Outreach, Unity Through Community

Previous Work Experience

Lead Mechanic, Sears Auto Center, Prescott, AZ (928) 777-7795