Krishna Bathina

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Education

2014-'20 exp. **PhD, Complex Systems**; Indiana University (Bloomington)

2014-'17 **MS, Computer Science**; Indiana University (Bloomington)

2010-'14 **BS, Comput. and Math. Modeling in Biology and Epidemiology**; University of Michigan (Ann Arbor)

BS, Psychology; University of Michigan (Ann Arbor)

Minor: Biophysics

Work Experience

May - Aug 2016 **Internship at HRL Laboratories** - Worked with the full Tumblr dataset to build an agent based model about posting behavior during times of social unrest

Conferences

- CCS 2018 (Thessaloniki, Greece) - Error-Correcting Decoders for Communities in Networks
- NetSci 2018 (Paris, France) - Error-Correcting Decoders for Communities in Networks
- CCS 2017 (Cancun, Mexico) - Predicting Epistatic Interactions Using Information and Network Theory
- SBP-BRiMS 2017 (Washington DC, USA) - An Agent-Based Model of Posting Behavior During Times of Societal Unrest
- CHI 2016 (San Jose, CA) - Bridging the Gap between Privacy by Design and Privacy in Practice
- 3rd annual preconference on Dynamical Systems and Computational Modeling in Social Psychology, Society for Personality and Social Psychology 2014 (Austin, TX) - Grim P., Liu MZ, Bathina K., Liu N., Gordon J. Opinion Instability in Democratic and Anti-Democratic Networks: Suggestions from an Agent-Based Model.
- MCubed Symposium 2013 (Ann Arbor, MI) - Baptista M., Kollman K., Baik J., Bathina K., Liu MZ. Modeling Convergence, Innovation and Divergence in Creole Genesis

Publications

- Bathina, KC, and Raddichi, Filippo. "Error-Correcting Decoders for Communities in Networks". Under Review at Applied Network Science
- Bathina, KC, and Blythe, Jim. "Instrumenting Simple Risk Communication to Enable Online Self-Protection." Federal Trade Commission.
- Bathina, KC, et al. "An Agent-Based Model of Posting Behavior During Times of Societal Unrest." Social, Cultural, and Behavioral Modeling. Springer, Cham, 2017.

- Ellis, Nick C., Ute Römer, and Matthew Brook O'Donnell. "Usage-Based Approaches to Language Acquisition and Processing." The Language Learning Monograph Series (2016), Chapter 9.
- Grim, Patrick, Mengzhen Liu, Krishna C. Bathina, Naijia Liu, and Jake William Gordon. "How Stable Is Democracy? Suggestions from Artificial Social Networks." Journal on Policy and Complex Systems. (2018), Volume 4, Number 1.

Services

- Young Researchers of the Complex Systems Society (yrcCCS) board member: 2018 - Present

Teachings

- **Collective Intelligence** (TA) Fall 2017
- **Mathematical Foundations of Informatics** (TA) Fall 2014 - Spring 2015
- **Agent Based Models** (TA) Fall 2013
- **Modeling in Political Science** (TA) Fall 2013