

Vincent Wong

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Education

Indiana University

08/2017 – Present

PhD student in Informatics and Cognitive Science

- **Research interests:** computational models of community dynamics, social cognition of group perception, social misperception, and deviation from social norms
- **Key courses:** Network Science, Machine Learning, Social Media Research, Group Processes, Bayesian Statistics
- **GPA:** 3.83

Brandeis University

09/2010 – 05/2014

B.A. in Complex Systems with Honors

- **Independent major comprising three disciplines:** physics, neuroscience, and economics
- **Graduate level coursework:** Biological Physics, Computational Neuroscience, Independent Study in Dynamical Systems, Game Theory, Principles of Neuroscience, Statistical Machine Learning, Systems Neuroscience, Thermodynamics and Statistical Mechanics

Current Research

Emergence and dissolution of pluralistic ignorance

Computational network model

- Developed a computational model using bipartite social networks to explore the dynamics leading to pluralistic ignorance, specifically examining the divergence between actual and perceived ideological stances within American political parties.
- Employed simulations based on data from the American National Election Studies to predict misperceptions in party affiliations.
- Conducted research with Rob Goldstone.

Correspondence bias as a mechanism for pluralistic ignorance on climate change

Survey of nationally representative respondents

- Conducted a survey to assess correspondence bias and its impact on perceptions of climate change mitigation support in the U.S., investigating how attributional biases influence the underreporting of perceived concern for climate issues.
- Conducted research with Nathan Geiger, Junho Lee, and Junghyun Moon.

Bleedover effect of social network structure on subject categories

Computer-based psychological experiment

- Conducted an experiment using a simulated social media platform to explore how exposure to a social network structure affects perceptions of topic cohesiveness among network members. Participants navigated the mock platform, and their assessments of content similarity were analyzed to measure perceptual changes.
- Conducted research with Rob Goldstone.

Publications

Wong V, Cooney D, Bar-Yam Y. Beyond Contact Tracing: Community-Based Early Detection for Ebola Response. PLoS Curr. 2016 May 19;8. doi: 10.1371/currents.outbreaks.322427f4c3cc2b9c1a5b3395e7d20894. PMID: 27486552; PMCID: PMC4946441.

Geiger, N., Pierce, H., Wong, V., Sparkman, G., Constantino, S. Causes of Pluralistic Ignorance: An Integrative Review and Synthesis. Annual Reviews of Psychology. Submitted for review: March, 2024.

Fellowships and Awards

2017 – 2022

NSF Research Trainee

Indiana University

Spring 2021

Luddy Outstanding Teaching Award

Indiana University

Presentations and Posters

- Poster on social cognition and social networks** 09/2018
NSF Research Traineeship Conference, Washington, D.C.
- Presented early research on cognitive bleedover effect work
 - Attended NRT Conference as a representative of IU's NRT program
- Poster on dynamics of community involvement on Twitter** 04/2018
NRT Research Showcase
- Presented work at research poster sessions for NRT fellows
- Talk on community response strategies for Ebola epidemic** 09/2017
Conference on Complex Systems
- Gave talk on Beyond Contact Tracing for *Digital Epidemiology and Surveillance Satellite Session (DELVE)*

Past Research

- How do people differ? A social media approach** 08/2017
New England Complex Systems Institute
- Used dimensionality reduction on social media data to find principal trends in patterns of speech
 - Conducted research with Yaneer Bar-Yam
 - <https://necsi.edu/how-do-people-differ-a-social-media-approach>

Employment

- New England Complex Systems Institute (NECSI)** 2014 - 2017
Researcher
- **Responsibilities:** Developing models and simulations, producing figures and visualizations, writing and editing papers, managing and analyzing data, IT and hardware management, supervising at seasonal NECSI courses

Teaching

- Assistant Instructor (AI)** 08/2017 - Present
Luddy School of Informatics, Indiana University
- **Courses taught:** Math Foundations of Informatics (I201), Information Representation (I308), Data Visualization (I422/I590), Network Science (I606)
 - **Skills:** Creating rubrics, creating online course content, advising project teams, advising and organizing undergraduate and masters assistant instructors

- Teaching Assistant for Summer & Winter School Programs** 2014 - 2017
New England Complex Systems Institute

Service

- Publicity Chair** 02/2018 - 02/2020
Graduate Informatics Student Association
- Coordinated social media outreach, managed events with the Social Events Chairperson, and contributed to organizational decision making and scholarship fund management as a board member.

Skills

- Programming** - Python, R, SQL, data visualization, Gamemaker, Unity
Empirical - Survey design, experiment design, statistical analysis