Alexander T. J. Barron

CONTACT INFORMATION	Informatics East 400 919 E 10th Street Bloomington IN 47408	Email: atbarron@iu.edu Website: https://cogentmentat.github.io

EDUCATION

School of Informatics, Computing, and Engineering, Indiana University, Bloomington, USA
Ph.D. Candidate in Informatics, Complex System track   from August 2012
- Advisor: Johan Bollen

University of New Mexico, Albuquerque, New Mexico, USA
B.S. double major in Physics and Mathematics   August 2011

RESEARCH INTERESTS

Cultural innovation
- In particular: devoloping measurements of innovation and the *effectiveness* of innovation on new content in context.

Identity, social group formation, and language use.
- Does identity inspire group formation, or vice versa? Measurement of these interrelated concepts using language as data.

PUBLICATIONS

Journals

Alexander T. J. Barron, Jenny Huang, Rebecca L. Spang, Simon DeDeo. (2018). Individuals, institutions, and innovation in the debates of the French Revolution. *Proceedings of the National Academy of Sciences*, 115 (18).
- (This research is covered by multiple media including Christian Science Monitor)

Rui Fan, Ali Varamesh, Onur Varol, **Alexander T. J. Barron**, Ingrid van de Leemput, Marten Scheffer, Johan Bollen. The minute-scale dynamics of online emotions reveal the effects of affect labelling. In press.

Conference Presentations

Alexander T. J. Barron, Jenny Huang, Rebecca L. Spang, Simon Alexander T. J. Barron and Johan Bollen. *Social Media Analysis Bias Due to Performative Self-identification*. Data and Algorithm Bias Workshop, Conference on Information and Knowledge Management 2017, Singapore.

Alexander T. J. Barron and Johan Bollen. *Developing a Moral NLP Toolkit*. Conference on Complex Systems 2017, Cancún, Mexico.

Alexander T. J. Barron, Jenny Huang, and Simon DeDeo. *Speech Innovation During the French Revolution*. Conference on Complex Systems 2015, Phoenix, AZ.

Alexander T. J. Barron, Emilio Ferrara, Giovanni Ciampaglia, Alessandro Flammini. *Price, Popularity, and Growth Dynamics of Bitcoin*. Computational Approaches to Social Modeling Satellite, Websci 2014, Bloomington, IN.

Posters

Alexander T. J. Barron, Jenny Huang, Rebecca L. Spang. *Speech Innovation During the French Revolution*. Conference on Complex Systems 2015, Phoenix, AZ.
- (This poster won Honorable Mention in the Language, Linguistics, Cognition and Social Ecology Track)

EMPLOYMENT HISTORY

Research Assistant   2014-present
IU School of Informatics and Computing
- with Johan Bollen: analyzing social media content using Moral Foundations Theory, part of the DARPA Next Generation Social Science grant.
- with Simon DeDeo: information-theoretic analysis of political speech during the French Revolution

Associate Instructor   2012-2014
IU School of Informatics and Computing
- Classes: *Mathematical Foundations of Informatics* and *Research Methods in Informatics*

AWARDS, GRANTS AND HONORS	Poster Honorable Mention in Language, Linguistics, Cognition and Social Ecology Track and CCS'15
	UNM Regents' Scholarship Winner 2006-2010
SKILLS	**Python**, **scikit-learn**, **NLTK**, **Stanford NLP suite**, **R**, **Gephi**, **Git**, **Github**, **Jazz Drumset (since 7 years old!)**