

# Benjamin Peloquin

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<https://github.com/benpeloquin7>

## Experience

### Stanford University

*PhD candidate, Cognitive Science (computational)*

Computation & Cognition Lab, Language & Cognition Lab

Research in computational cognitive science involving Bayesian cognitive modeling, Bayesian data analysis, agent-based simulation, and machine learning methods.

Stanford, CA

2017–2019

### Roam Analytics

*Machine Learning Engineer*

*Primary focus:* NLP engineering for natural language search system.

*Secondary focus:* In-house suite of information extraction tools for natural language text.

*Other:* Data pipeline engineering.

San Mateo, CA

2016–2017

### Stanford Language & Cognition Lab

*Researcher*

*Primary focus:* Probabilistic tools for experimental data.

*Secondary focus:* Web experiments on natural language understanding.

Stanford, CA

2016

### Goodby Silverstein & Partners

*Sr. Research & Analytics Strategist*

Data analytics for fortune 100 companies: exploratory data analysis, data integration, consumer clustering.

2013 Cannes Young Lions US Finalist

2012 Ogilvy Research Innovation Award

San Francisco, CA

2011–2014

## Education

### Stanford University

*M.S., Symbolic Systems*

Research in computational linguistics.

Coursework in computer science, statistics, and cognitive science.

Stanford, CA

2014–2016

### Pitzer College, Claremont Colleges

*B.A., Honors in Cognitive Psychology, Minor in Music*

Claremont, CA

2006–2010

### Publications

**Peloquin, B.**, Goodman, N. D., Frank, M. C. (2019) The interactions of rational, pragmatic agents lead to efficient language structure and use. *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. [Winner of best paper for computational modeling of language.]

**Peloquin, B.**, Goodman, N. D., Frank, M. C. (2018) Deriving efficient behavior in rational pragmatic agents. *Proceedings of the 40th Annual Conference of the Cognitive Science Society*.

**Peloquin, B.**, Frank, M. C. (2016) Determining the alternatives for scalar implicature. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.

Frank, M. C., Emilsson, A. G., **Peloquin, B.**, Goodman, N. D., Potts, C. (under review). Rational speech act models of pragmatic reasoning in reference games.

### Commentaries

Hardwicke, T., Tessler, M. H., **Peloquin, B.**, Frank, M.C. (2018). A Bayesian decision-making framework for replication. Behavioral and brain sciences.

### Talks

Deriving efficient behavior in rational pragmatic agents. *Stanford Cognitive Science Seminar 2018*. Stanford University.

Determining the alternatives for scalar implicature. *17th annual Semantics and Pragmatics Festival*. Stanford University.

### Scientific computing / Packages

*rrrsa: R package for Bayesian cognitive modeling.*