

RUSSELL GOLMAN

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Office Contact Information

Department of Social and Decision Sciences (SDS)
Carnegie Mellon University
5000 Forbes Avenue, BP 208
Pittsburgh, PA 15213

Academic Position:

- 2019-present Associate Professor of Behavioral Economics and Decision Science, Department of Social & Decision Sciences, Carnegie Mellon University
- 2012-2019 Assistant Professor of Behavioral Economics and Decision Science, Department of Social & Decision Sciences, Carnegie Mellon University
- 2010-2015 Director of Quantitative Social Science Scholars Program, Carnegie Mellon University
- 2010-12 Visiting Assistant Professor, Social & Decision Sciences, Carnegie Mellon University
- 2009-10 Postdoctoral Fellow, Social & Decision Sciences, Carnegie Mellon University

Education:

- 2004-09 Ph.D. In Applied and Interdisciplinary Mathematics, University of Michigan
Dissertation: "Essays on Population Learning Dynamics and Boundedly Rational Behavior"
- 2000-03 B.S., Mathematics, Stanford University

Research Interests:

Behavioral Decision Making, Behavioral Economics, Behavioral Game Theory, Complex Adaptive Systems, Mathematical Modeling

Publications:

- Golman, Russell, Erin Bugbee, Aditi Jain, and Sonica Saraf. "Hipsters and the Cool: A Game Theoretic Analysis of Social Identity, Trends, and Fads." *Psychological Review* (2021): forthcoming.
- Golman, Russell, George Loewenstein, Andras Molnar, and Silvia Saccardo. "The Demand for, and Avoidance of, Information." *Management Science* (2021): forthcoming.
- Golman, Russell, Nikolos Gurney, and George Loewenstein. "Information Gaps for Risk and Ambiguity." *Psychological Review* 128 (2021): 86-103.
- Golman, Russell, Sudeep Bhatia, and Patrick Kane. "A Dual Accumulator Model of Strategic Deliberation and Decision Making." *Psychological Review* 127 (2020): 477-504.
Finalist for the Exeter Prize for best paper published in Experimental Economics, Behavioral Economics, and Decision Theory in 2020
- Golman, Russell. "New Directions in Behavioral Game Theory." *Games* 11 (2020), 4, 50.
- Trimmer, Pete C., Richard McElreath, Sarah Auster, Gordon D. A. Brown, Jason Dana, Gerd Gigerenzer, Russell Golman, Christian Hilbe, Anne Kandler, Yaakov Kareev, Lael J. Schooler and Nora Szech. "The Zoo of Models of Deliberate Ignorance." In: *Deliberate Ignorance: Choosing Not to Know*, edited by R. Hertwig and C. Engel. Strüngmann Forum Reports, vol. 29, J. R. Lupp, series editor. Cambridge, MA: MIT Press, (2020).

- He, Lisheng, Russell Golman, and Sudeep Bhatia. "Variable Time Preference." *Cognitive Psychology* 111 (2019): 53-79.
- Bhatia, Sudeep and Russell Golman. "Bidirectional Constraint Satisfaction in Rational Strategic Decision Making." *Journal of Mathematical Psychology* 88 (2019): 48-57.
- Bhatia, Sudeep and Russell Golman. "Attention and Reference Dependence." *Decision* 6 (2019): 145-170
- Golman, Russell and George Loewenstein. "The Desire for Knowledge and Wisdom." In *The New Science of Curiosity*, G. Gordon (ed.), Nova, (2018).
- Golman, Russell and George Loewenstein. "Information Gaps: A Theory of Preferences Regarding the Presence and Absence of Information." *Decision* 5 (2018): 143-164.
- Golman, Russell, David Hagmann, and George Loewenstein. "Information Avoidance." *Journal of Economic Literature* 55 (2017): 96-135.
- Golman, Russell, George Loewenstein, Karl Ove Moene and Luca Zarri. "The Preference for Belief Consonance." *Journal of Economic Perspectives* 30 (2016): 165-187.
- Golman, Russell and Steven Klepper. "Spinoffs and Clustering." *Rand Journal of Economics* 47 (2016): 341-365. Reprinted in *Innovation Policy, Systems and Management*, J. Niosi (ed.), Cambridge UP.
- Golman, Russell. "Good Manners: Signaling Social Preferences." *Theory and Decision* 81 (2016): 73-88.
- Golman, Russell, David Hagmann and John Miller. "Polya's Bees: A Model of Decentralized Decision Making." *Science Advances* 1 (2015).
- Golman, Russell and George Loewenstein. "An Information-Gap Framework for Capturing Preferences About Uncertainty." *Proceedings of the 15th Conference on Theoretical Aspects of Rationality and Knowledge* (2015).
- Loewenstein, George, Cass R. Sunstein and Russell Golman. "Disclosure: Psychology Changes Everything." *Annual Review of Economics* 6 (2014): 391-419.
- Bhatia, Sudeep and Russell Golman. "A Recurrent Neural Network for Game Theoretic Decision Making." *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (2014).
- Golman, Russell and Sudeep Bhatia. "Performance Evaluation Inflation and Compression." *Accounting, Organizations, and Society* 37 (2012): 534-543.
- Golman, Russell. "Homogeneity Bias in Models of Discrete Choice with Bounded Rationality." *Journal of Economic Behavior and Organization* 82 (2012): 1-11.
- Golman, Russell. "Quantal Response Equilibria with Heterogeneous Agents," *Journal of Economic Theory* 146 (2011): 2013-2028.
- Golman, Russell. "Why Learning Doesn't Add Up: Equilibrium Selection with a Composition of Learning Rules," *International Journal of Game Theory* 40 (2010): 719-733.
- Golman, Russell and Scott E. Page. "Individual and Cultural Learning in Stag Hunt Games with Multiple Actions," *Journal of Economic Behavior and Organization* 73 (2010): 359-376.
- Golman, Russell and Scott E. Page. "Basins of Attraction and Equilibrium Selection under Different Learning Rules," *Journal of Evolutionary Economics* 20 (2010) 49-75.
- Golman, Russell and Scott E. Page. "General Blotto: Games of Allocative Strategic Mismatch," *Public Choice* 138 (2008): 279-299.

Working Papers:

Golman, Russell. “Acceptable Discourse: Social Norms of Beliefs and Opinions”

Chaudhry, Shereen and Russell Golman. “Team Chemistry: Apologizing Beats Blaming on the Basketball Court.”

Chen, Zhuo, Russell Golman, and Jason Somerville. “Menu-Dependent Risk Attitudes: Theory and Evidence.”

d’Adda, Giovanna, Yu Gao, Russell Golman, and Massimo Tavoni. “Social Pressure and Energy Conservation: Experimental Evidence on Strategic Information Avoidance and Belief Manipulation.”

Huang, Shu, Stephen B. Broomell, and Russell Golman. “A Hypothesis Test Algorithm for Determining When Weighting Individual Judgments Reliably Improves Accuracy or Just Adds Noise.” (**R&R** at *Decision*)

Huang, Shu, Stephen B. Broomell and Russell Golman. “A Regularized Weighting Model of Judgment Aggregation.”

Huang, Shu and Russell Golman. “The Collective Wisdom of Behavioral Game Theory.”

Huang, Shu, Russell Golman, and Stephen B. Broomell. “Combining the Aggregated Judgments: An Effective Method for Improving Accuracy by Stacking Multiple Weighting Models.”

Molnar, Andras and Russell Golman. “Impatience for Information: Curiosity Is Here Today, Gone Tomorrow.” (**R&R** at *Journal of Behavioral Decision Making*)

Research In Progress:

“Empirical Tests of the Dual Accumulator Model and Other Behavioral Game Theory Models”

“Evolving Risk Attitudes and Entrepreneurship.”

“Eye Fixations During Strategic Choice Reveal Bidirectional Preference Accumulation.” (with Lisheng He and Sudeep Bhatia)

“Getting More Wisdom from the Crowd: Using Topic Modeling of Explanations to Improve the Accuracy of Collective Forecasts.” (with Shu Huang and Stephen B. Broomell)

“Goal Setting and Belief-Based Utility.”

“Headline Curiosity.” (with Jing Yi Qiu)

“Singular Thinking in Belief Formation.” (with Josh Tasoff)

“The Wisdom of Social Networks.” (with Shu Huang and Stephen B. Broomell)

Research Advising:

2020-cur Erin Bugbee

2017-cur Shu Huang, “Harnessing the Wisdom of Crowds.”

2012-13 Sudeep Bhatia, “Attention and the Formation of Reference-Dependent Preferences.” (Dissertation chair)

2013-18 David Hagmann, “The Policy Consequences of Information: Three Essays on Being (Un)Informed.” (Dissertation committee)

2015-16 Rich Truncellito, “The Right Moment: Context-Sensitivities, Ease of Retrieval, and Their Effects on Consumption.” (Dissertation committee)

- 2015-16 Liping Tang, “Value of Information and Value of Signals in Signaling Games.” (Dissertation committee)
- 2014-16 Shereen Chaudhry, “Thanking, Apologizing, Bragging, and Blaming: The Currency of Communication.” (Dissertation committee)
- 2012-15 Patricia Rich, “Rationality in Context: Practical Guidance Through a Hybrid Approach.” (Dissertation committee)
- 2013-14 Jit Nandi, “Distinguishing Between Different Mechanisms of Network Evolution Using Network Motifs and Machine Learning.” (Undergraduate honors thesis)
- 2011-12 Ashwin Kumar, “A Model of Binary Prediction Markets Based on Prospect Theory.” (Dissertation committee)
- 2012 Soham Sengupta, “An Economic Methodology for Understanding and Predicting Rebellion.” (Undergraduate research project)
- 2009-10 Arash Enayati, “Information Flow and Strategic Decisions in Social Networks.” (Undergraduate research project)

Teaching Experience:

- 2009-present Faculty, Social & Decision Sciences, Carnegie Mellon University
Designed and taught undergraduate lecture courses and freshman seminars on decision analysis, on modeling complex social systems, on game theory, on behavioral game theory, and on strategic decision making
- 2013 & 2014 Faculty, Graduate Workshop in Computational Social Science Modeling and Complexity, Santa Fe Institute
- 2004-07 Instructor, Department of Mathematics, University of Michigan,
Independently taught Calculus I, Calculus II, and Data, Functions and Graphs (Pre-Calc)

Professional Consulting:

- 2017-21 Consultant for Guo Consulting, “Behavioral Economics Research Workshop”
- 2010 Consultant for Booz Allen Hamilton, “General Blotto Simulation” research project

Grants and Fellowships:

- 2017 Russell Sage Foundation Grant [with George Loewenstein] (\$35000)
- 2017 Alfred P. Sloan Foundation Grant [with George Loewenstein] (\$20000)
- 2014 CBDR Small Grant [with Shereen Chaudhry] (\$2270)
- 2013 CBDR Small Grant [with Sudeep Bhatia and Lynn Conell-Price] (\$1800)
- 2011 Russell Sage Foundation Small Grant in Behavioral Economics [with Peter Kriss] (\$7500)
- 2008-09 National Science Foundation IGERT Fellowship (Graduate Fellowship)
- 2008 Luthur Claborn Mathematics Endowment, University of Michigan (\$3000)
- 2007 Arthur Herbert Copeland, Sr. Memorial Scholar, University of Michigan (\$3000)
- 2006 Mathematics Alumni Scholarship, University of Michigan (\$3000)
- 2005 Arthur Herbert Copeland, Sr. Memorial Scholar, University of Michigan (\$3000)

Presentations (* if invited):

- TBD “The Demand for, and Avoidance of, Information.” *Curiosity, Creativity, and Complexity Conference at Columbia University*, New York.* (to be rescheduled from 2020)
- 2022 “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *University of Connecticut Environmental/Law & Economics/IO Seminar*, Storrs (virtual).*
- 2021 “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *University of Groningen Economics Seminar*, Groningen (virtual).*
- “Eye Fixations During Strategic Choice Reveal Bidirectional Preference Accumulation.” *Process Tracing in Judgment & Decision Making Virtual Seminar*.*
- “Hipsters and the Cool: A Game Theoretic Analysis of Social Identity, Trends and Fads.” *Learning, Evolution, and Games 2021 Conference* (virtual).
- “Eye Fixations During Strategic Choice Reveal Bidirectional Preference Accumulation.” *Subjective Probability, Utility, and Decision Making 2021 Conference* (virtual).
- “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *Berlin Behavioral Economics Seminar*, Berlin (virtual).*
- “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *ECONtribute Summer Workshop on Social Image and Moral Behavior* (virtual).
- “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *Belief-Based Utility Workshop*, University of Amsterdam (virtual).
- “The Demand for, and Avoidance of, Information.” *Economic Science Association 2021 Global Around-the-Clock Virtual Conference*.
- “Hipsters and the Cool: A Game Theoretic Analysis of Social Identity, Trends and Fads.” *Networks 2021 Conference* (virtual).
- “Commentary on ‘Modeling the Cognitive Process During Game Plays Using Hidden Markov Models.’” *Behavioral Game Theory Conference*, University of East Anglia (virtual).
- 2020 “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *Goethe University Frankfurt Digital Economics Seminar*, Frankfurt (virtual).*
- “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *Virtual Econ & Finance Workshop at KIT*, Karlsruhe (virtual).*
- “Acceptable Discourse: Social Norms of Beliefs and Opinions.” *University of Warwick Decision Research at Warwick Forum*, Coventry (virtual).*
- “Eye Fixations During Strategic Choice Reveal Bidirectional Preference Accumulation.” *Virtual Process Tracing Conference 2020*.
- “The Dual Accumulator Model of Strategic Deliberation and Decision Making.” *Economic Science Association 2020 Global Around-the-Clock Virtual Conference*.
- “The Demand for, and Avoidance of, Information.” *Cognitive Economics Virtual Conference*.

- “The Dual Accumulator Model of Strategic Deliberation and Decision Making.” *Behavioral Game Theory Workshop at the University of East Anglia, Norwich.*
- 2019 “The Dual Accumulator Model of Strategic Deliberation and Decision Making.” *Society for Judgment and Decision Making Conference, Montreal.*
- “The Dual Accumulator Model of Strategic Deliberation and Decision Making.” *Villanova University Economics Seminar, Villanova.**
- “The Demand for, and Avoidance of, Information.” *Cornell University Behavioral Economics and Decision Research Seminar, Ithaca.**
- “The Demand for, and Avoidance of, Information.” *BRIQ Belief Workshop, Bonn.**
- “The Demand for, and Avoidance of, Information.” *Tilburg University Economics Seminar, Tilburg.**
- “The Demand for, and Avoidance of, Information.” *University of California San Diego Rady School of Management Economics Seminar, San Diego.**
- “Modeling Deliberate Ignorance.” *Ernst Struengmann Forum on Deliberate Ignorance, Frankfurt.**
- “The Demand for, and Avoidance of, Information.” *George Mason University Interdisciplinary Center for Economic Science Seminar in Experimental Economics, Arlington, VA.**
- 2018 “Information Avoidance: How People Select Their Own Reality.” *University of Pittsburgh Science 2018 (Public Symposium) Spotlight Session, “Don’t Confuse Me with the Facts.” Pittsburgh.**
- “A Cognitive Model of Strategic Deliberation and Decision Making.” *Foundations of Utility and Risk Conference, York.*
- “Hipsters and the Cool: A Game Theoretic Analysis of Social Identity, Trends and Fads.” *Economic Research on Identity, Norms, and Narratives Conference, Oxford.**
- “Information Gaps and Belief-Based Utility.” *University of Pennsylvania Wharton School of Business Decision Processes Colloquium, Philadelphia.**
- 2017 “A Cognitive Model of Strategic Deliberation and Decision Making.” *Vanderbilt University Economics Seminar, Nashville.**
- “Information Avoidance as a Window Into the Mind.” *Early Career Behavioral Economics Conference, Pittsburgh.**
- “Information Gaps and Belief-Based Utility.” *Belief-Based Utility Conference, Pittsburgh.**
- “Understanding Curiosity.” *Designing for Curiosity Workshop, Denver.**
- “Information Gaps and Belief-Based Utility.” *University of Rochester Brain and Cognitive Sciences Seminar, Rochester.**
- 2016 “Information Gaps and Belief-Based Utility.” *Bowdoin College Economics Seminar, Brunswick, ME.**
- “Spinoffs and Clustering.” *International Schumpeter Society Conference, Montreal.*
- “Information Gaps for Risk and Ambiguity.” *Foundations of Utility and Risk Conference, Warwick, UK.*

- “Information Gaps for Risk and Ambiguity.” *Early Career Behavioral Economics Conference*, Bonn.
- “Commentary on ‘The Dynamics of Excessive Force.’” *University of Washington Legal Methods Workshop*, Seattle.*
- “Good Manners: Signaling Social Preferences.” *Network for Integrated Behavioural Science Conference*, East Anglia.
- 2015 “Polya’s Bees: A Model of Decentralized Decision Making.” *University of California at Irvine Mathematical Behavioral Sciences Colloquium*, Irvine.*
- “Polya’s Bees: A Model of Decentralized Decision Making.” *Conference on Complex Systems*, Phoenix. (**Star Presentation**)
- “Good Manners: Signaling Social Preferences.” *International Game Theory Conference*, Stony Brook.
- “Belief Consonance.” *Self-deception, Self-signaling, and Self-Control Workshop*, Toulouse.*
- “An Information-Gap Framework for Capturing Preferences About Uncertainty.” *Theoretical Aspects of Rationality and Knowledge Conference*, Pittsburgh.
- “The Evolution of Institutions.” *Third NIMBioS Workshop on the Evolutionary Origins of Complex Institutions*, Knoxville.*
- “Information Gaps for Risk and Ambiguity.” *Information and Decisions Workshop*, Pittsburgh.*
- 2014 “Polya’s Bees: A Model of Decentralized Decision Making.” *Decision Bristol Conference*, Bristol, UK.
- “Curiosity, Information Gaps, and the Utility of Knowledge.” *MathPsych Conference*, Quebec City.
- “Curiosity, Information Gaps, and the Utility of Knowledge.” *Workshop on Epistemology, Logic, and Games*, Pittsburgh.*
- “Spinoffs and Clustering.” *Entrepreneurship, Innovation, and Industry Evolution Conference*, Pittsburgh.*
- “Spinoffs and Clustering.” Santa Fe Institute Workshop in Computational Social Science, Modeling and Complexity, Santa Fe.*
- “The Evolution of Institutions.” *NIMBioS Workshop on the Evolutionary Origins of Complex Institutions*, Knoxville.*
- 2013 “Spinoffs and Clustering.” *First European Workshop on Entrepreneurship Economics*, Amsterdam.
- “Spinoffs and Clustering.” Santa Fe Institute Workshop in Computational Social Science, Modeling and Complexity, Santa Fe.*
- “Performance Evaluation Inflation and Compression.” *Infirms Annual Meeting*, Minneapolis.
- “Curiosity, Information Gaps, and the Utility of Knowledge.” *Public Choice Society Conference*, New Orleans.
- 2012 “Basins of Attraction and Equilibrium Selection under Different Learning Rules.” *Evolution, Learning, and Games Conference*, Pittsburgh.*

- “Curiosity, Information Gaps, and the Utility of Knowledge.” *University of Pittsburgh Behavioral Economics Seminar*, Pittsburgh.*
- “Curiosity, Information Gaps, and the Utility of Knowledge.” *Ohio State Economics Behavioral / Theory Seminar*, Columbus.*
- “Curiosity, Information Gaps, and the Utility of Knowledge.” *Temple University Economics Seminar*, Philadelphia.*
- “Curiosity, Information Gaps, and the Utility of Knowledge.” *University of Michigan Complex Systems Seminar*, Ann Arbor.*
- “Expectations and Aspirations: Explaining Ambitious Goal-Setting and Nonconvex Preferences.” *Econometric Society (ASSA) Meeting*, Chicago.
- 2011 “Curiosity, Information Gaps, and the Utility of Knowledge.” *Dauphine Workshop on Economic Theory*, Paris.
- “A Model of Decentralized Decision Making.” *Complex Adaptive Systems: Energy, Information, and Intelligence Conference*, Arlington, VA.
- “Expectations and Aspirations: Explaining Ambitious Goal-Setting and Nonconvex Preferences.” *Stanford Institute for Theoretical Economics Workshop: Psychology and Economics, 9.0*, Stanford.
- “Performance Evaluation Inflation and Compression.” *Tournaments, Contests, and Relative Performance Evaluation Conference*, Raleigh.
- 2010 “Why Learning Doesn’t Add Up: Equilibrium Selection with a Composition of Learning Rules.” *Midwest Economic Theory Meeting*, Madison.
- “Why Learning Doesn’t Add Up: Equilibrium Selection with a Composition of Learning Rules.” *International Game Theory Conference*, Stony Brook.
- “Quantal Response Equilibria with Heterogeneous Agents.” *Behavioral & Quantitative Game Theory Conference*, Newport Beach.
- 2009 “Logit Equilibria with Heterogeneous Agents.” *Economic Science Association Conference*, Tucson.
- “Quantal Response Equilibria with Heterogeneous Agents.” *International Game Theory Conference*, Stony Brook.
- “Basins of Attraction and Equilibrium Selection under Different Learning Rules.” *Luce Symposium, Kalamazoo College Center for Complex Systems Studies*, Kalamazoo.*
- 2008 “Quantal Response Equilibria with Heterogeneous Agents.” *Kenyon College Mathematics Colloquium*, Gambier.*
- “Quantal Response Equilibria with Heterogeneous Agents.” *Midwest Mathematical Economics and Theory Meeting*, Columbus.
- “Quantal Response Equilibria with Heterogeneous Agents.” *University of Michigan Applied and Interdisciplinary Mathematics Seminar*, Ann Arbor.*

Professional Service:

Organizer:

Belief-Based Utility Conference, Carnegie Mellon University, Pittsburgh (2017).

Invited session “The Wisdom of the Crowd,” *International Symposium on Forecasting* (2021).

Guest Editor:

Games special issue on “Behavioral Game Theory” (2020).

Referee:

American Economic Review: Insights

American Political Science Review

Applied Economics Letters

Behavioural Public Policy

Cognition

Decision

Econometrica

Economic Journal

European Economic Review

European Management Review

Experimental Economics

Food Policy

Games and Economic Behavior

International Journal of Game Theory

Journal of Behavioral Decision Making

Journal of Economic Behavior & Organization

Journal of Economic Psychology

Journal of Evolutionary Economics

Journal of Experimental Psychology: General

Journal of Happiness Studies

Journal of Marketing Research

Journal of Mathematical Economics

Journal of Mathematical Psychology

Journal of Political Economy

Journal of Public Economics

Management Science

Nature Human Behavior

PLOS One

Proceedings of the National Academy of Sciences

Psychological Review

Review of Economic Studies

Columbia University Press

Early Career Behavioral Economics Conference

Israel Science Foundation

MIT Press

National Science Center, Poland

National Science Foundation: Decision, Risk, and Management Sciences

National Science Foundation: Economics

Princeton University Press

TIC-STH Symposium on Engineered and Natural Complex Systems-Modeling, Simulation and Analysis

UCO Office of Research & Grants

University Service:

Director of Quantitative Social Science Scholars (QSSS) Program, 2010-2015
Host of Alumni Event, 2014, 2021
Organizer of QSSS Seminar, 2010-2015
Panelist, Prospective Student “Sleeping Bag Weekend” Dietrich Information Sessions, 2010-15
Faculty Search Committee, 2014-15, 2015-16, 2016-17, 2019-20
Postdoc Search Committee, 2021
PhD Admissions Committee, 2012-current
PhD “Choice” Qualifier Exam Committee, 2012-current
PhD “Cognitive Decision Science” Qualifier Exam Committee, 2021-current
QSSS Curriculum Review Committee, 2015-16
QSSS Steering Committee, 2010-current
SDS Departmental Climate Committee, 2020-current