

Patrick Kane

McGill University
Biomedical Ethics Unit
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Research Interests

Judgement and decision making; Forecasting; Perception of science; Perception of uncertainty

Academic Positions

Post-Doctoral Research Fellow – Biomedical Ethics Unit, McGill University *2018-Present*

Education

- 2017 Ph.D. Behavioral Decision Research, Carnegie Mellon University
Committee: Stephen Broomell (Chair), Baruch Fischhoff, Cosma Shalizi
- 2014 M.S. Behavioral Decision Research, Carnegie Mellon University
Committee: Stephen Broomell (Chair), Baruch Fischhoff, Cosma Shalizi
- 2012 B.S. Decision Science with an Additional Major in Philosophy and a Minor in Physics,
Carnegie Mellon University

Professional Activity

Data Science Intern (Adobe Systems) *Summer 2016*

- Clustering users according to their feature usage within Acrobat
- Evaluated the relationship between feature usage and long term subscription
- Evaluated the utility of current approach to customer feedback

Teaching Experience

Head Teaching Assistant, *Decision Analysis* (88-223) *2013-2018*
For Professor Russell Golman (2015-2018) & Professor Paul Fischbeck (2013-2014)

Teaching Assistant, Empirical Research Methods (88-251) *2016-2017*
For Professor Stephen Broomell

Teaching Assistant, Behavioral Decision Making (88-302) *2015*
For Professor Baruch Fischhoff

Teaching Assistant, Policy Analysis 1 (88-220) *2012-2014*
For Professor Serguey Braguinsky

Honors Awards and Fellowships

Runner-up Hillel Einhorn Young Investigator Award	2017
Phi Beta Kappa, Carnegie Mellon Chapter	2012
Andrew Carnegie Scholarship	2008-2012

Publications

Broomell, S. B., Winkles, J. F., & Kane, P. B. (2017). The Perception of Daily Temperatures as Evidence of Global Warming. *Weather, Climate, and Society*.

Broomell, S. B. & Kane, P. B. (2017). Public Perception and Communication of Scientific Uncertainty. *Journal of Experimental Psychology: General*, 146(2), 286-304.

Kane, P., & Zollman, KJS (2015). An Evolutionary Comparison of the Handicap Principle and Hybrid Equilibrium Theories of Signaling. *PLoS ONE*, 10(9), e0137271.
doi:10.1371/journal.pone.0137271

Accepted

Golman, R., Bhatia, S. & Kane, P.B. (2019) A Cognitive Model of Strategic Deliberation and Decision Making. (At *Psychological Review*)

Kane P. B. , Kim S. Y. H., and Kimmelman J. (2019) What Research Ethics (Often) Gets Wrong About Minimal Risk. (At *American Journal of Bioethics*)

Under Review

Kane, P. B. & Broomell, S. B. Applications of the Bias-Variance Decomposition to Human Forecasting. (Under Review at *Journal of Mathematical Psychology*)

Working Papers

Kane, P. B. & Broomell, S. B. Lay Evaluations of Predictive Models.

Kane, P. B. & Kimmelman, J. Forecasts for the Attainment of Major Research Milestones in Parkinson's Disease.

Talks (Presenter in Bold)

Kane, P. B. & Broomell, S. B. (2019). *Applications of the Bias Variance Decomposition to Human Forecasters*. Talk presented at the Society for Judgment and Decision Making: Montreal, QC.

Golman, R., Bhatia, S. & Kane, P.B. (2019) A Cognitive Model of Strategic Deliberation and Decision Making. Talk presented at the Society for Judgment and Decision Making: Montreal, QC.

Kane, P. B. & Broomell, S. B. (2017). *Detecting Systematic Errors in Forecasting with Kernel Smoothers: Evidence for Environmental Noise Propagation*. Talk presented at the Economics and Computation Forecasting Workshop: Boston, MA.

Kane, P. B. & Broomell, S. B. (2015). *Predicting Clinical Forecasting Errors with Local Estimators*. Talk presented at the Society for Judgment and Decision Making: Chicago, IL.

Conference Presentations (Presenter in Bold)

Kane, P. B., Benjamin, D. & Kimmelman, J. (2019). *Coherence Weighting Versus Coherentizing*. Poster presented at the Society for Judgment and Decision Making: Montreal, QC.

Dousseau, A., Kimmelman, J. & **Kane, P. B.** (2019). *Predicting the Outcomes of Clinical Trials*. Poster presented at the Society for Judgment and Decision Making: Montreal, QC.

Kane, P. B. & **Broomell, S. B.** (2018). *Applications of the Bias-Variance Decomposition to Human Forecasting*. Poster presented at the Society for Judgment and Decision Making: New Orleans, LA.

Broomell, S. B., Winkles, J.F., & Kane P. B. (2015). *The Perception of Daily Temperatures as Evidence of Climate Change*. Poster presented at the Society for Judgment and Decision Making: Chicago, IL.

Kane, P. B. & Broomell, S. B. (2014). *Predicting Clinical Forecasting Errors with Local Estimators*. Poster presented at the Society for Judgment and Decision Making: Long Beach, CA.

Broomell, S. B., & Kane P. B. (2013). *Public Perception of Scientific Uncertainty*. Poster presented at the Society for Judgment and Decision Making: Toronto, Canada.