

# James M<sup>c</sup>Inerney

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Nationality: United Kingdom

## Current position

2016– *Senior Research Scientist*, Spotify, New York, N.Y.

## Areas of specialization

machine learning, probabilistic models, recommender systems, causal inference.

## Experience

2017 *Adjunct Assistant Professor*, Columbia University, New York, N.Y.

2014–2016 *Postdoctoral Researcher*, Columbia University, New York, N.Y.

2014 *Postdoctoral Researcher*, Princeton University, Princeton, N.J.

## Education

2010–2014 *PhD in Machine Learning*, University of Southampton, U.K.

2009–2010 *MSc in Computing (Artificial Intelligence)*, Imperial College London, U.K.

2002–2005 *BA in Computer Science*, Oxford University, U.K.

## Grants, honors & awards

2013 *Finalist*, Orange Data for Development Challenge

2012 *Winner*, Tag Challenge by U.S. State Department

2012 *Finalist*, Nokia Mobile Data Challenge

2012 *Winner*, Entrepreneurship Challenge by University of Southampton

2010 *Grant*, IDEA League

2002–2005 *Full academic scholarship*, Oxford University

## Selected publications

### JOURNAL ARTICLES

- 2013 J. McInerney, S. Stein, A. Rogers, N. R. Jennings. Breaking the Habit: Measuring and Predicting Departures from Routine in Individual Human Mobility. *Journal of Pervasive and Mobile Computing*, 9, (6), 808-822.
- 2013 A. Rutherford, M. Cebrian, I. Rahwan, S. Dsouza, J. McInerney, V. Naroditskiy, M. Venanzi, N. R. Jennings, J.R. deLara, E. Wahlstedt, S. U. Miller. Targeted social mobilization in a global manhunt. *PLoS ONE*, 8, (9), e74628.

### CONFERENCE PEER REVIEWED

- 2017 J. McInerney. An Empirical Bayes Approach to Optimizing Machine Learning Algorithms. In *Conference on Neural Information Processing Systems (NIPS)*. Long Beach, California, USA. Spotlight presentation. *Acceptance rate: 18%*
- 2016 D. Liang, L. Charlin, J. McInerney, D. M. Blei. Modeling user exposure in recommendation. In *International World Wide Web Conference (WWW)*. Montreal, Quebec, Canada.
- 2015 J. McInerney, R. Ranganath, D. M. Blei. The population posterior and Bayesian modeling on streams. In *Conference on Neural Information Processing Systems (NIPS)*. Montreal, Quebec, Canada. *Acceptance rate: 22%*
- 2013 J. McInerney, A. Rogers, N. R. Jennings. Learning periodic human behaviour models from sparse data for crowdsourcing aid delivery in developing countries. In *Conference on Uncertainty in Artificial Intelligence (UAI)*. Bellevue, Washington, US. Oral presentation. *Acceptance rate: 11%*
- 2013 J. McInerney, J. Zheng, A. Rogers, N. R. Jennings. Modelling heterogeneous location habits in human populations for location prediction under data sparsity. In *International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*. Zurich, Switzerland. Oral presentation. *Acceptance rate: 18%*.

## Teaching

- 2017 COMS 4771 Machine Learning, Dept. of Computer Science, Columbia University
- 2017 Data Science Bootcamp, Institute of Data Science, Columbia University

## Service

- 2016-2017 Reviewer for Journal of Machine Learning Research (JMLR)
- 2014-2017 Workshop Organizing Committee: Advances in Approximate Bayesian Inference, NIPS
- 2013-2018 Program Committee: NIPS, ICML, AISTATS, IJCAI, AAAI most years

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