

EDWARD MEEDS

Machine Learning Group
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Objective

To obtain work in the field of quantitative finance, using statistical machine learning techniques in either a research or applied capacity.

Education

- **Ph.D.** Computer Science, University of Toronto, Machine Learning Group. 09/2003 - 04/2008.
Advisor: Sam Roweis. External examiner: Max Welling.
Area of research: *Nonparametric Bayesian Methods for Extracting Structure from Data*.
Research projects (all using nonparametric Bayesian techniques): mixtures of experts, matrix factorization, density estimation, biclustering, missing data models, hierarchical models, marginal gamma processes, stick-figure models.
- **M.Sc.** Evolutionary and Adaptive Systems, University of Sussex, UK. 09/1998 - 10/1999.
Advisor: Professor Phil Husbands. Graduated 3rd in class and with distinction.
Thesis: *Applications of Evolutionary Computation to Chemometric Regression Problems*.
- **B.Sc.** Neural Computation (with honours), McMaster University, Canada. 09/1994 - 04/1998.
Advisor: Professor Sue Becker.
Thesis: *A Neural-Network Model of the Hippocampal Memory System*.

Work Experience

- **Postdoctoral Fellow.** University of Toronto. 02/2008 - present.
Project: *Biclustering analysis of yeast genome*.
- **Mathématiques Appliquées S.A.** Paris, France. 04/2000 - 09/2003. *Research Engineer*.
Role: *Implementation and evaluation of machine learning algorithms for research and client projects*.
Applications: electronic semi-conductor tests, intrusion detection, condition monitoring, and fx time-series modeling. Conceived and developed novelty detection algorithms and model selection techniques. Lead designer of a machine learning toolkit for internal research and client applications.
- **Computing Devices Canada.** Calgary, Canada. Summers 1997-98. *Engineering Intern*.
- **Aurigor Engineering.** Ottawa, Canada. Summer 1996. *Engineering Intern*.

Publications

- Edward Meeds, David Ross, Richard Zemel, & Sam Roweis.
Learning Stick-figure Models using Nonparametric Bayesian Priors over Trees
Computer Vision and Pattern Recognition, 2008.
- Edward Meeds & Sam Roweis
Nonparametric Bayesian Bi-clustering
UTML-TR-2007-001, Technical Report, University of Toronto, 2007

- Edward Meeds, Zoubin Ghahramani, Radford Neal, & Sam Roweis
Modelling Dyadic Data with Binary Latent Factors
Neural Information Processing Systems, 2006
- Edward Meeds & Simon Osindero
An Alternative Infinite Mixture of Gaussian Process Experts
Neural Information Processing Systems, 2005
- Edward Meeds
Novelty Detection Model Selection Using Volume Estimation.
UTML-TR-2005-004, Technical Report, University of Toronto, 2005

Other

- Computer Languages: Python (1 year), Matlab (7 years), C++ (4 years)
- Fluent in French.
- Varsity athlete: University of Toronto Swimming (2005-07) and Water-Polo (2003), McMaster Swimming (1994-97) and Water-Polo (1997).

References

- Available upon request.