Jovana Mitrovic

mitrovic@stats.ox.ac.uk

https://jovana-mitrovic.github.io/

St Peter's College

New Inn Hall Street

OX1 2DL, Oxford, United Kingdom

ACADEMIC

Department of Statistics, University of Oxford   *(10/2014 - present)*

   PhD Student. Clarendon Scholar. **Supervisors:** Yee Whye Teh and Dino Sejdinovic

- Areas of Research: Machine Learning - Kernel Methods, Deep Learning

Department of Mathematics, ETH Zürich   *(09/2012 - 07/2014)*

   MSc in Applied Mathematics. **Supervisor:** Nicolai Meinshausen

- Master thesis: CSUR Decomposition for improved data analysis

Department of Mathematics, ETH Zürich   *(09/2009 - 05/2014)*

   BSc in Mathematics. **Supervisors:** Paul Embrechts and Marius Hofert

- Bachelor thesis: A Survey of Copulas in Machine Learning

PROFESSIONAL

Research Intern. Montreal Institute for Learning Algorithms, U. of Montreal   *(08/2016 - 11/2016)*
Supervisors: Yoshua Bengio and Aaron Courville
- developing inference methods for generative adversarial networks

Research Assistant. Department of Management, Technology and Economics, ETH Zürich
- Chair of Macroeconomics: Innovation and Policy   *(09/2012 - 08/2013)*
  - revision and editing of academic papers
- Chair of Technology and Innovation Management   *(09/2012 - 08/2013)*
  - maintenance of databases and websites

PROJECTS

Causality and Machine Learning   *(01/2017 - present)*

- advancing causal discovery methods with machine learning

- using causal thinking to derive better machine learning methods

Inference in Generative Adversarial Networks   *(08/2016 - present)*

- Inference methods for networks with multiple stochastic layers

Weight Initialization for Deep Neural Networks   *(02/2016 - present)*

- Data-driven supervised method motivated by disentangling factors of variation at initialization

Automatic Data Summaries for Approximate Inference   *(07/2016 - 02/2016)*

- Kernel-based approach to summary statistics estimation

REFEREED PUBLICATIONS

Mitrovic, J., Sejdinovic, D., and Teh, Y. W. *DR-ABC: Approximate Bayesian Computation with Kernel-Based Distribution Regression.* ICML 2016.

INVITED TALKS

- Zurich Machine Learing and Data Science Meetup. Zurich *28 November 2016*
  "Data Summarization with Kernel Methods"

- ICML Main Conference. New York *22 June 2016*
  "DR-ABC: Approximate Bayesian Computation with Kernel-Based Distribution Regression"

TEACHING

Teaching Assistant, University of Oxford

- Data Mining and Machine Learning *(01/2017 - 03/2017)*

- Probability *(11/2016 - 12/2016)*

- Probability, Applied Statistics *(01/2016 - 06/2016)*

- Statistics and Data Analysis *(04/2016 - 06/2016)*

- Statistical Data Mining and Machine Learning *(02/2016 - 03/2016)*

Teaching Assistant, Department of Mathematics, ETH Zürich

- Linear Algebra II *(02/2014 - 06/2014)*

- Complex Analysis *(09/2013 - 12/2013)*

- Numerical Mathematics II *(02/2012 - 06/2012)*

- Complex Analysis *(09/2011 - 12/2011)*

- Numerical Methods for Engineers *(02/2011 - 06/2011)*

HONORS AND AWARDS

Clarendon Fund Scholarship, University of Oxford *2014*

- Full scholarship for PhD studies awarded to the top 3% of accepted graduate students

SOFTWARE SKILLS

Computer Languages	Python, LuaJIT/Torch, R
Tools	Git, LaTeX