

Zelda Mariet – MIT PhD Candidate & Google PhD Fellow

Negatively dependent measures for machine learning

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EDUCATION

- **MIT - PhD candidate (CSAIL & LIDS), advised by Suvrit Sra** Cambridge, USA
Theory and applications of negatively dependent measures for ML model design Sept. 2014 – June 2019
Minor: physical cosmology. Obtained MSc. in Feb. 2016.
- **Ecole polytechnique - MSc** France
Specialization in Mathematics and Computer Science Sept. 2011 – Aug. 2014

SELECTED PUBLICATIONS

- [DPPNET: Approximating DPPs with Deep Networks](#), [Zelda Mariet](#), [Yaniv Ovadia](#), [Jasper Snoek](#) draft, 2019
- [Foundations of Sequence-to-Sequence Modeling for Time Series](#), [Zelda Mariet](#), [Vitaly Kuznetsov](#) AISTATS, 2019
- [Learning DPPs by Sampling Inferred Negatives](#), [Zelda Mariet](#), [Mike Gartrell](#), [Suvrit Sra](#) AISTATS, 2019
- [Exponentiated Strongly Rayleigh Distributions](#), [Zelda Mariet](#), [Suvrit Sra](#), [Stefanie Jegelka](#) NeurIPS, 2018
- [Maximizing Induced Cardinality Under a DPP](#), [J. Gillenwater](#), [A. Kulesza](#), [Z. Mariet](#), [S. Vassilvtiskii](#) NeurIPS, 2018
- [Elementary Symmetric Polynomials for Optimal Experimental Design](#), [Zelda Mariet](#), [Suvrit Sra](#) NIPS, 2017
- [Kronecker Determinantal Point Processes](#), [Zelda Mariet](#), [Suvrit Sra](#) NIPS, 2016
- [Learning and Enforcing Diversity with Determinantal Point Processes](#), [Zelda Mariet](#), [Suvrit Sra](#) MS thesis, 2016
- [Diversity Networks: Neural Network Compression Using DPPs](#), [Zelda Mariet](#), [Suvrit Sra](#) ICLR, 2016
- [Fixed-Point Algorithms for Learning Determinantal Point Processes](#), [Zelda Mariet](#), [Suvrit Sra](#) ICML, 2015

RESEARCH EXPERIENCE

- **Google Inc. (Brain)** Cambridge, MA
Software Engineering Intern (research). Generative models for negatively dependent measures June 2018 – Sept. 2018
- **Google Inc. (Research and Machine Intelligence)** NYC, NY
Software Engineering Intern (research). Theory of high-dimensional time series prediction June 2017 - Aug. 2017
- **Google Inc. (Maps)** Mountain View, CA
Software Engineering Intern. Ranking optimization June 2016 – Sept. 2016
- **MIT (CSAIL, LIDS)** Cambridge, MA
Research Assistant. Research on negatively dependent measures for ML model design Sept. 2014 – present
- **Hagiwara lab (萩原研究室), Keio University** Yokohama, Japan
Research intern. Analysis of the representational ability of hidden layers in deep nets May 2014 – August 2014

TEACHING EXPERIENCE

- **Teaching Assistant** Cambridge, USA
TA for MIT's graduate machine learning class (6.867) Sept. 2016 – December 2016
- **Math/physics teacher** France
Teacher at a French non-profit (GEPPM) for underprivileged high-school students Sept. 2014 – April 2015

AWARDS & COMMUNITY SERVICE

- **2018**: Recipient of the Google PhD Fellowship in machine learning
- **2017**: Recipient of the Criteo Faculty Research Award program
- **2014**: Accepted to the Corps des Mines after graduating in the top 15 students at Ecole polytechnique
- **2013**: Silver medal at the SWERC international algorithmics contest

Community service: reviewer for WIML, ICLR, NeurIPS, JMLR

SPOKEN LANGUAGES

English/French: bilingual **Japanese:** strong skills (JLPT N3) **German:** strong skills **Chinese:** basic skills