

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 to ML model design Sept. 2014 – present
Minor: physical cosmology. Obtained MSc. (Computer Science) in Feb. 2016.
- **Ecole polytechnique - MSc** Palaiseau, France
Specialization in Mathematics and Computer Science Sept. 2011 – Aug. 2014

SELECTED PUBLICATIONS

- [Exponentiated Strongly Rayleigh Distributions](#), *Zelda Mariet, Suvrit Sra, Stefanie Jegelka* NIPS 2018
- [Maximizing Induced Cardinality Under a DPP](#), *J. Gillenwater, A. Kulesza, S. Vassilvitskii, Z. Mariet* NIPS 2018
- [Foundations of Sequence-to-Sequence Modeling for Time Series](#), *Vitaly Kuznetsov, Zelda Mariet** preprint, 2018
- [Learning DPPs by Sampling Inferred Negatives](#), *Zelda Mariet, Mike Gartrell, Suvrit Sra* preprint, 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 – present
- **Google Inc. (Research and Machine Intelligence)** NYC, NY
Software Engineering Intern (research). Theory of high-dimensional time series prediction June 2017 - Aug. 2016
- **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, 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** Essonnes, 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 2017, NIPS 2017, ICLR 2018, NIPS 2018 (top 30%)

SPOKEN LANGUAGES

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