David Alvarez-Melis

Stata Center, 32 Vassar St G496
Cambridge, MA, 02139
✉ *dalvmel[at]mit[dot]edu*

Objective: Interested in a post-PhD full-time role, combining research and development of machine learning systems, in particular in topics related to: interpretability, optimal transport and generative models.

EDUCATION

2014– **Massachusetts Institute of Technology**, PhD in Computer Science.
Focus: machine learning and natural language processing. Advisor: Tommi Jaakkola.

2011-2013 **Courant Institute, New York University**, MS in Mathematics.
Focus: Numerical methods and machine learning. Advisor: Mehryar Mohri, GPA: 3.98

2006-2011 **Instituto Tecnologico Autonomo de Mexico**, Mexico City, B.S. in Applied Math.
Advisor: Carlos Bosch, grade: 9.74/10, highest honors, top 1% of class, chosen for valedictorian speech.

PROFESSIONAL EXPERIENCE

05 – 08/2018 **Research Intern**, *Microsoft Research*, New York, NY, USA.
○ Mentors: Hanna Wallach, Jenn Wortman Vaughnan, Hal Daume
○ Project: TBD.

05 – 08/2016 **Research Intern**, *Microsoft Research*, Redmond, WA, USA.
○ Mentors: Scott Yih, Ming-Wei Chang, Kristina Toutanova, Chris Meek.
○ Project: Multi-hop relation prediction for knowledge base question answering.

2013 – 2014 **Supplemental Researcher**, *IBM Research*, TJ Watson Center, NY, USA.
○ Mentors: Michael Picheny & Ken Church (speech recognition group)
○ Data analysis, statistical modeling for speech recognition data.

2009 – 2010 **Statistical Analyst**, *LasQuinceLetras Solutions*, Mexico City, Mexico.
○ Designed and carried out statistical learning methods on large survey databases.
○ Specialized on segmentation and customer analysis, brand equity research and market trends.

Spring 2015 **Teaching Assistant**, *MIT*, 6.036: Introduction to Machine Learning.

2012,2013 **Adjunct Instructor**, *NYU*, MATH-UA.9: Algebra and Calculus and MATH-UA.121 Calculus I.

FELLOWSHIPS AND AWARDS

2018 **Facebook Fellowship Finalist**, (30/800 applicants).

2018 **Hewlett Packard Graduate Fellowship**, One-term PhD award.

2018 **AI2 Key Scientific Challenges program award**, $10K unrestricted seed research funding.

2014 – 2018 **Fellowship for graduate studies abroad**, *CONACYT (Mexican Council of Science and*
2011 – 2013 *Technology)*.

March 2012 **Alumni Research Prize, Second Place**, *ITAM*, XVII Edition, Category: Undergraduate Thesis.

2012 – 2013 **Award for Graduate Studies Abroad**, *Mexican Ministry of Education*.

October 2011 **Sotero Prieto Prize, Second Place**, *Mexican Mathematical Society*, Yearly award for the best undergraduate theses in mathematics in the country.

2006 – 2009 **Academic Excellence Scholarship**, *ITAM*, For undergraduate studies.

SKILLS

Computational Python, Java, BASH, Lua, C++, MATLAB, SPSS, LaTeX.

Packages Torch, Pytorch, Theano, Keras, Scikit

Languages Spanish (Native), English (Fluent), Italian (Advanced), French (Interm.), German & Dutch (Basic).

Personal Fast learner, adaptable, creative mind, comfortable working under pressure.

INTERESTS

Professional Machine Learning, NLP, Statistical Modeling and Analysis, Numerical Optimization.