David Alvarez-Melis

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EDUCATION

2014–2019	**Massachusetts Institute of Technology**, PhD in Computer Science. Focus: machine learning and natural language processing. Minor: Optimization. Advisor: Tommi Jaakkola.
2011-2013	**Courant Institute, New York University**, MS in Mathematics. Focus: Numerical optimization 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

08/2019 –	**Postdoctoral Researcher**, *Microsoft Research*, Cambridge, MA, USA. ○ Working in various topics in machine learning.
2014 – 2019	**Research Assistant**, *MIT*, Cambridge, MA, USA. ○ Tommi Jakkola's lab. ○ Conducted research in various topics in machine learning and natural language processing.
05 – 08/2018	**Research Intern**, *Microsoft Research*, New York, NY, USA. ○ Mentors: Hanna Wallach, Jenn Wortman Vaughnan, Hal Daume ○ Project: Robust and human-like interpretability for machine learning.
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 award..
2011, 2014	**Fellowship for graduate studies abroad**, *CONACYT*.
March 2012	**Alumni Research Prize, Second Place**, *ITAM*, Category: Undergrad Thesis.
2012 – 2013	**Award for Graduate Studies Abroad**, *Mexican Ministry of Education*.
October 2011	**Sotero Prieto Prize, Second Place**, *Mexican Math. Society*, Best math thesis nation-wide.
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).

INTERESTS

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