

Adam Lesnikowski

CONTACT INFORMATION

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INTERESTS

Deep learning and machine learning for AI and statistical learning theory, especially applied to large computer vision and natural language tasks.

EXPERIENCE

Senior Perception Software Engineer for Autonomous Vehicles

January 2017- present

Helping to build the worldwide data collection program for our autonomous vehicles group with a great group of brilliant people! I am in charge of designing the system to decide what video data gets labelled by humans.

CEO and Head of Machine Learning, Research at a Stealth Startup

July 2015-July 2016

CEO and on the founding team, I developed the machine learning techniques and models for our stealth startup to provide mobile pedestrian directions that factored costs like pedestrian crime or dangers and benefits like green, leafy or scenic routes. I started our deep convolutional neural network project to gather walkability signals automatically from street view and other image sources. 4 out of 5 star average for our app while it was live.

Cofounder at FIRST Robotics Team RamBots

2003-2004

I was a cofounder and president of a robotics team that built a 125 pound robot to compete, where we were one of 4 of 72 teams to advance from the New England Regionals to the National finals. I ran a team that had EE faculty at Brown University, engineers with Raytheon, and more than 30 students, parents and volunteers. We achieved a Rookie All-Star Award, the most prestigious award for first year teams in FIRST in 2004.

PROJECTS

Predicting Prices for House Shares using Deep Convolutional Neural Networks

2016-Present

I was in charge of building a house share price predictor using a deep convolutional neural network. I collected a dataset of 100K user-submitted images to a popular house sharing website. I wrote and ran the computer vision and neural network experiments. Results of a mean absolute error of \$68 over a baseline constant mean predictor and 64% success rate for predicting over versus under mean over a baseline 50% random predictor.

How Much Did it Rain?: Regressors for Rainfall from Polarimetric Radar Data

Jan 2015-May 2015

We applied a suite of parametric and non-parametric models to predict rainfall probability distributions across several US states. Our top model was competitive in a world-wide competition.

HONORS, AWARDS

1st Place in UC Berkeley Machine Learning Competition

Feb 2015

1st place of 387 graduate and undergraduate students in a Berkeley machine learning in-class competition for CS 189, 289. The task was correct label prediction for a modified MNIST dataset using SVMs with any kind of preprocessing, feature extraction, data-fitting term, or kernels.

Berkeley Fellowship for Graduate Study	2012-2014
Most competitive and prestigious fellowship awarded by the UC Berkeley Graduate Division, \$90,000 multi-year research grant. Given to less than 5% of the top of incoming Ph.D. students.	
Top 1% Kaggle Peak Worldwide Rank	Nov 2015
Includes results of 1st of 387 and 5th of 299 in kaggle.com competitions.	
Huygens Scholarship Program	2009-2011
48,000 euro grant funded by the Netherlands Organization for International Cooperation in Higher Education and Research for a two-year research M.Sc. programme. Awarded to top 150 of approximately 1,700 applicants.	
Magna cum laude, A.B. thesis	May 2009
<i>Reasoning About an Ordering of Mathematical Theories: Modal System ILM is the Logic of Interpretability Over Peano Arithmetic.</i>	
Harvard College Summer Research Program	Jun 2008
Summer research grant in interpretability, the logic of provability, and decision problems.	
U.S. Presidential Scholar, National Merit Finalist	Spring 2004
Presidential Scholar Award given to the top 121 graduating seniors in the United States by the Department of Education and the Office of the President.	

EDUCATION

University of California, Berkeley , Berkeley, California, United States.	2012-2015
Ph.D. program in Logic, Methodology and Science Mathematics and philosophy preliminary examinations, August 2014	
Universiteit van Amsterdam , Amsterdam, The Netherlands.	2009–2011
Research M.Sc. Program in Logic Thesis Area: Set Theory, Large Cardinals.	
Harvard University , Cambridge, Massachusetts, United States.	2004–2009
Honors A.B. in Philosophy and Mathematics Thesis Area: Interpretability and Modal Logic, supervised by Professor Warren Goldfarb.	
Budapest Semesters in Mathematics , Budapest, Hungary.	Fall 2006
Courses in math taught by faculty from the Alfréd Rényi Institute of Mathematics.	
LaSalle Academy , Providence, RI	2000-2004
US Presidential Scholar, scores of 1600 on SAT I, 800 on SAT II subject tests in mathematics, physics, and writing; State Gold Medalist, Science Olympiad, Rhode Island and New England math teams.	

SELECTED
ACADEMIC
PROGRAMS

Asian Initiative in Infinity Summer School	Jul 2012
National University of Singapore Department of Mathematics four-week program in set theory and computability theory. Co-organized by the Singapore Institute of Mathematical Sciences and UC Berkeley faculty.	
Summer School in Logic and Formal Epistemology	Jun 2008
Carnegie Mellon University three-week program in Bayes nets, linguistics, and automated proof verification.	

LANGUAGES

English, Polish (bilingual proficiency), Java, Python (professional working proficiency), Bash, C, Lisp, Scala, Swift, Ruby, Octave, French, Dutch (some working proficiency).