JEREMY WOHLWEND

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(978) 944-4982 – Cambridge, MA

EDUCATION

Massachusetts Institute of Technology — Sep 2020 – May 2025
PhD in Computer Science — Cambridge, MA
Regina Barzilay Group, CSAIL

Massachusetts Institute of Technology — Sep 2016 – June 2017
MEng in Computer Science and Engineering — Cambridge, MA

Massachusetts Institute of Technology — Sep 2012 – June 2016
BS in Computer Science, and in Mathematics — Cambridge, MA

International School of Boston — Sep 2010 – June 2012
French Baccalaureate with honors — Cambridge, MA

PROFESSIONAL

ASAPP Inc. — Sep 2017 – Aug 2020
Staff Research Engineer - Manager — New York, NY
Conducted research on scalable methods in natural language processing.
Lead of the Scalable NLP Team.
Lead developer on the internal offline training framework.

International School of Boston — Sep 2016 – June 2023
Member of the board of Trustees — Cambridge, MA
Active in the school governance and the development committee.

Synthetic Neurobiology Group, Boyden Lab, MIT — Sep 2015 – June 2017
Research Assistant — Cambridge MA
Investigated 3D image segmentation algorithms.
Built an open-source software for expansion microscopy simulations.

Poggio Lab, McGovern Institute for Brain Research, MIT — Jan 2013 – June 2013
Research Assistant — Cambridge MA
Ran human evaluation and data analysis on a body recognition tasks

SKILLS

- Languages: French (First), English (Fluent), German (Intermediate)
- Programming: Python, C/C++, Docker, Cloud & cluster management

RESEARCH

Boltz-1: Democratizing Biomolecular Interaction Modeling 2025
Jeremy Wohlwend*, Gabriele Corso*, Saro Passaro*, Mateo Reveiz, Ken Leidal, Wojtek Swiderski, Tally Portnoi, Itamar Chinn, Jacob Silterra, Tommi Jaakkola, Regina Barzilay
* Co-first authors
In review

MiniFold: Simple, Fast and Accurate Protein Structure Prediction 2025
Jeremy Wohlwend*, Mateo Reveiz*, Matt McPartlon, Axel Feldmann, Wengong Jin, Regina Barzilay
* Co-first authors
TMLR (Featured Certification)

Deep learning enhances the prediction of HLA class I presented CD8+ T cell epitopes in foreign pathogens 2024
Jeremy Wohlwend*, Anusha Nathan*, Nitan Shalon, Charles Crain, Rhoda Tano-Menka, Benjamin Goldberg, Emma Richards, Gaurav D. Gaiha, Regina Barzilay
* Co-first authors
Nature Machine Intelligence

Improving influenza A vaccine strain selection through deep evolutionary models 2024
Wenxian Shi, Jeremy Wohlwend, Menghua Wu, Regina Barzilay
In review

Sybil: A validated deep learning model to predict future lung cancer risk from a single low-dose chest computed tomography 2023
Peter G Mikhael*, Jeremy Wohlwend*, Adam Yala, Ludvig Karstens, Justin Xiang, Angelo K Takigami, Patrick P Bourgouin, PuiYee Chan, Sofiane Mrah, Wael Amayri, Yu-Hsiang Juan, Cheng-Ta Yang, Yung-Liang Wan, Gigin Lin, Lecia V Sequist, Florian J Fintelmann, Regina Barzilay
* Co-first authors
Journal of Clinical Oncology

Iterative Refinement Graph Neural Network for Antibody Sequence-Structure Co-Design 2022
Wengong Jin, Jeremy Wohlwend, Regina Barzilay, Tommi Jaakkola
ICLR

Structured Pruning of Large Language Models 2020
Ziheng Wang*, Jeremy Wohlwend*, Tao Lei*
* Co-first authors
EMNLP

Autoregressive Knowledge Distillation through Imitation Learning 2020
Alexander Lin, Jeremy Wohlwend, Howard Chen, Tao Lei
EMNLP

ASAPP-ASR: Multistream CNN and Self-Attentive SRU for SOTA Speech Recognition 2020
Jing Pan*, Joshua Shapiro*, Jeremy Wohlwend*, Kyu J. Han*, Tao Lei*, Tao Ma*
Co-first authors
Interspeech

Metric Learning for Dynamic Text Classification 2019
Jeremy Wohlwend, Ethan R. Elenberg, Samuel Altschul, Shawn Henry, Tao Lei
EMNLP, DeepLo (selected as oral presentation)

Flambé: A Customizable Framework for Machine Learning Experiments 2019
Jeremy Wohlwend, Nicholas Matthews, Ivan Itzcovich
ACL

Building a Production Retrieval Model for Goal-Oriented Dialogue 2019
Kyle Swanson, Lili Yu, Christopher Fox, Jeremy Wohlwend, Tao Lei
ACL, NLP4ConvAI

Feasibility of 3D Reconstruction of Neural Morphology using Expansion Microscopy and Barcode-Guided Agglomeration 2017
Young Gyu Yoon, Peilun Dai, Jeremy Wohlwend, Jae-Byum Chang, Adam H. Marblestone, and Edward S. Boyden
Frontiers in Computational Neuroscience

Enabling Scalable Multicolor Connectomics Through Expansion Microscopy 2017
Jeremy Wohlwend, Adam H. Marblestone, Edward S. Boyden
M.Eng Thesis, MIT DSpace

Body-form and body-pose recognition with a hierarchical model of the ventral stream 2012
Heejung Kim, Joel Z. Leibo, Jeremy Wohlwend, and Tomaso Poggio
MIT DSpace