Dave Van Veen

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Impact-driven ML health researcher with Stanford PhD and publications at top venues. Collaborative team leader adept at aligning research with strategy.

EDUCATION

STANFORD UNIVERSITY
PH.D. - ELECTRICAL ENGR.
Sept. 2024 | Stanford, CA
GPA 4.0

UNIVERSITY OF TEXAS
M.S. - ELECTRICAL ENGR.
May 2019 | Austin, TX
GPA 3.8

UNIVERSITY OF WISCONSIN
B.S. - ELECTRICAL ENGR.
Dec. 2016 | Madison, WI
GPA 3.9

COURSEWORK

Natural Language Processing • Machine Learning • Software Engineering • Data Science • Optimization • Probability • Signal Processing • Computational Bio

PROJECTS

Fair AI Curriculum: Created fair ML course for 400 high schools
ML Consultant: Served as key personnel on SBIR grant
Volunteer Tutor: Provided mentorship in STEM courses
Web Development: Built web pages for ed tech site with HTML
Electronics Lab: Designed, built, and tested a theremin on PCB
Clinical Volunteer: Socialized inpatients with extended stay

SKILLS

Current
Python • PyTorch • Tensorflow • Pandas • Sklearn • Azure • Git • Bash • MATLAB • Photoshop • HTML • LaTeX • Spanish
Past
SQL • Java • Julia • Altium • CAD

RECREATION

Bikepacking: Solo trip across Mexico on dirt using a self-built gravel bike
Hobbies: Trail running, cycling, tennis, surfing, backpacking, photography

TECHNICAL EXPERIENCE

For list of publications, patents, etc. view my CV at **davevanveen.com**

RESEARCH ASST. | STANFORD UNIVERSITY
Fall 2021 - Present | Stanford, CA
- Led foundation model project with 18 contributors, 11 depts. [Nature Medicine]
- Created novel imaging methods for computer vision, signal processing
- Collaborated on multimodal foundation models and benchmark datasets
- Completed entrepreneurship program (Ignite) in Graduate School of Business

RESEARCH INTERN | TECHNICAL UNIVERSITY MUNICH
Summer 2023 | Munich, Germany
- Designed cryo-EM reconstruction methods with the Machine Learning Group

ML RESEARCH SCIENTIST | SUBTLE MEDICAL
Fall 2019 - Summer 2021 | Menlo Park, CA
- Developed real-time video denoising algorithms for series A start-up
- Led project earning NIH SBIR grant, industry contracts, and multiple patents

RESEARCH FELLOW | DATA SCIENCE FOR SOCIAL GOOD
Summer 2019 | London, UK
- Built machine learning pipeline to predict heart function by analyzing 10 TB of data, including echocardiogram videos and electronic health records
- Collaborated with cardiologists in Spain to improve clinical diagnosis efficiency

RESEARCH ASST. | UNIVERSITY OF TEXAS
Fall 2017 - Spring 2019 | Austin, TX
- Developed novel ML algorithms for data recovery with neural networks
- Devised novel regularization techniques to enforce fair model decisions

RESEARCH INTERN | QBE DIGITAL INNOVATION LAB
Spring/Summer 2017 | Madison, WI
- Formulated and executed rapid lifecycle experiments from business objectives
- Built data pipelines and detection algorithms for satellite imaging projects

ELECTRICAL ENGR. + PROJECT MGMT. INTERN | BOEING
Summer 2016 | Seattle, WA
- Designed power distribution systems in CAD according to project requirements
- Developed a plan (later implemented) for energy management to save $2.8M/yr

LEADERSHIP EXPERIENCE

PRESIDENT, CO-FOUNDER | BADGERLOOP INC.
Fall 2015 - Spring 2017 | Madison, WI
- Won Innovation Award + 3rd place at the SpaceX Hyperloop Pod Competition
- Founded and led 150-person multi-disciplinary org; oversaw pod design, build
- Raised $250,000+ from industry and VC; negotiated legal contracts w.r.t. IP
- Created and instructed a hyperloop special topics course for 40 students

AQUATICS SUPERVISOR | CITY OF MADISON
2014 - 2015 | Madison, WI
- Hired, trained, and supervised 100+ employees; managed budget of $250K
- Led organization that provided swim team opportunities to underserved youth