

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 • L^AT_EX • 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