Curriculum Vitae/Resume
Conner Stevons

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Education

University of Michigan — *Ann Arbor, MI*

Master of Science in **Electrical and Computer Engineering** — ***Dec. 2021***

- Cumulative GPA of 3.63/4.00
- Specialization in Optics & Photonics
- Held **1 NASA internship** utilizing research and data analysis skills (2021)

University of Alabama in Huntsville (UAH) — *Huntsville, AL*

Master of Science in **Physics** — ***Dec. 2019***

- Cumulative GPA of 3.83/4.00
- Held **1 NASA internship** utilizing MATLAB/Simulink skills (2020)

Adrian College — *Adrian, MI*

Bachelor of Science in **Physics** and **Chemistry** — ***May 2017***

- Cumulative GPA of 3.86/4.00
- Graduated with **honors** and ***summa cum laude***
- Held **1 Research Experience for Undergraduates (REU)** internship with **NASA/UAH** (2016)
- Held 1 internship with Royal Adhesives and Sealants as an **Analytical Chemist** (2015)

Experience

General Dynamics Mission Systems (GDMS) — *Scottsdale, AZ*

Sr. Data Scientist/Electrical Engineer — ***Jul. 2022 - Present***

- Achieved **3 Engineering Excellence awards** and secured **1 patent publication**
- Developed and deployed a **Plotly-based web dashboard for a classified project**, displaying ML model results and visualizations of satellite communications-related data for our government customers
- Written and maintained a repository of **100+ MATLAB and Python scripts** responsible for data processing, analysis, and visualization of RF-based hardware lab testing
- Experienced with **presenting in high-pressure environments**, notably with government/military customers
- Conducted research and performed experiments to enhance RF sensing performance of Rydberg atom sensor systems built in-house, **resulting in a patent**
- Designed a fiber-optic quantum communications channel and successfully demonstrated the transfer of quantum information from a sender to a distant receiver

NASA Glenn Research Center (GRC) — *Cleveland, OH*

Quantum Communications Intern — ***Jun. 2020 - Aug. 2021***

- Built multiple **MATLAB models for efficiency simulations** of the optical entanglement process using electro-optical devices and nonlinear crystals to distribute quantum information via a satellite relay
- **Published 2 internal whitepapers** and presented research results at the NASA Quantum Information Science Conference and to NASA leadership
- Corresponded with numerous teams of NASA researchers, interns, and even astronauts across 10 NASA centers
- Collaborated frequently with NASA mentor and the quantum communications team, resulting in agile research momentum shifts throughout both summer experiences

Department of Physics at UAH *Huntsville, AL*

Graduate Teaching/Research Assistant ***Aug. 2017 - May. 2020***

- **Taught 10 physics lab courses**, mentored and collaborated with hundreds of students, and enhanced their understanding and application of physics concepts and analysis
- Applied research and academic knowledge to successfully capture research funding
- **Assisted advisor in designing experiments** aimed to generate and measure the fidelity of photonic entangled states in the presence of various perturbative effects
- Prepared experiments using optical lab skills such as free-space alignment; manipulating optical polarization; beam focusing; generating diffraction patterns with gratings and spatial light modulators, and building various interferometers
- **Led scientific outreach events** at 2 North Alabama Regional Science Olympiads
- **Passed the UAH Physics Comprehension Examination** at the Ph.D. level

Skills

Technical Skills

- **Programming:** Python, MATLAB, LaTeX
- **Relevant Libraries:** PyTorch, Tensorflow, Scikit-learn, Plotly, Dash, NumPy, Pandas, SciPy, Matplotlib, Seaborn
- **Software:** Git, Anaconda, Linux/Shell Scripting, VSCode, Microsoft Office
- **Basic Web Development:** HTML, CSS, JavaScript, Ruby
- **Foundational Skills:** Machine Learning; Deep learning; Statistical Modeling; Bayesian Inference; Data Science; Data Mining; Data Visualization; Theoretical Physics; Nonlinear, Fourier, Quantum, and Electro-Optics;
- **Coursera certificates:**
  - Deep Learning Specialization - DeepLearning.AI 2021
  - Introduction to Data Science in Python - University of Michigan 2023
  - Applied Plotting, Charting & Data Representation in Python - University of Michigan 2023
  - Applied Machine Learning in Python - University of Michigan 2023
  - Introduction to SQL - University of Michigan 2023
- Operational experience with signal generators, spectrum and vector signal analyzers, and oscilloscopes

Additional

Conferences

- Attended quantum-related events at the **2023 SPIE Photonics West Conference** San Francisco, CA
- 2021 Early Career Presenter for the **NASA Quantum Information Science (QIS) Conference** Remote
- Attendee to the 2020 and 2021 **John Glenn Memorial Symposiums** Remote
- Presenter at the 2017 **Ribbons of Excellence Program Conference** at Adrian College Adrian,MI
- Poster presenter at the 2016 **American Geophysical Union Fall Meeting** San Francisco, CA
- Poster presenter at the 2016 **West MI Regional Undergrad Science Research Conference** Grand Rapids, MI
- Presenter at the **Adrian College Board of Trustees Research Presentations** Adrian, MI

Honors and Awards

- GDMS **1 Patent Publication** 2024
- GDMS **3 Engineering Excellence Awards** 2023
- GDMS Engineering Leadership Program **A-Course Award** 2023
- Frank and Shirley Dick Scholar **Student-Athlete Award** 2015
- Student **Scholar-of-the-Game Award** 2015
- Wacker Silicones **Chemistry Award** 2015
- NCAA DIII Cross-Country **Academic All-American Awards** 2013-2016
- **Eagle Scout** in the Boy Scouts of America 2013