Adam Hall

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EDUCATION

University of California San Diego **La Jolla, CA**
PhD in Mechanical Engineering, GPA: 3.83/4 2022 – Present

Union College **Schenectady, NY**
Bachelor of Science in Mechanical Engineering, GPA: 3.98/4 2017 – 2021

RESEARCH EXPERIENCE

Graduate Student Researcher, University of California San Diego
PI: Dr. Sutanu Sarkar, Dr. Sophia Merrifield 2022 – Present

- Simulating flow past a disk in stratified environments at high Reynolds numbers

Undergraduate Researcher, Union College
PI: Dr. Ali Hamed 2020 – 2021

- Analysis of flow over bar roughness in turbulent boundary layers and effect of fluid injection

PUBLICATIONS

Hamed, A.M., O'Brien, C.T., **Hall, A.J.**, Gallary, R.M., DaRosa, J.J., Goddard, Q.L., & McAtee, B.R. Flow organization in the near wake of isolated and sheltered 2D bar roughness elements. *Physical Review Fluids* **8**, 2 (2023). 10.1103/PhysRevFluids.8.024602

Hamed, A.M., Nye, C.E. & **Hall, A.J.** Effects of localized blowing on the turbulent boundary layer over 2D roughness. *Experiments in Fluids* **62,** 163 (2021). doi.org/10.1007/s00348-021-03261-0

TEACHING EXPERIENCE

Teaching Assistant, University of California San Diego

- Introductory Fluid Mechanics Sep - Dec 2023
- Introductory Fluid Mechanics Sep - Dec 2024

PROFESSIONAL PRESENTATIONS

- Wake Growth in Nonlinear Stratification
  77th Annual Meeting of the APS Division of Fluid Dynamics, Salt Lake City, UT Nov 2024

- Time-Resolved 3D Measurements of the Flow Surrounding 2D Isolated and Tandem Roughness Elements
  31st Annual Steinmetz Symposium, Union College, Schenectady, NY May 2021

HONORS AND AWARDS

Naval Innovation, Science and Engineering Center (Inaugural Cohort, 2024)
NSF GRFP Honorable Mention (2023)
Tau Beta Pi Fellow (2022-2023)

SOFTWARE SKILLS

Languages: Fortran, MATLAB, Python
Computational Methods: MPI, HPC

MENTORING EXPERIENCE

UCSD MAE Graduate Student Council, Vice President 2023 – Present