

Daniel Floryan

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EDUCATION

Princeton University

Ph.D. in Mechanical Engineering
May 2019 | Princeton, NJ

M.A. in Mechanical Engineering
May 2016 | Princeton, NJ

Cornell University

B.S. in Mechanical Engineering
January 2014 | Ithaca, NY
Summa cum laude

B.A. in Economics
January 2014 | Ithaca, NY
Minor in Mathematics
With distinction in all subjects

TECH. COMMUNICATIONS

11 Journal publications
1 Book chapter
32 Conference presentations

COURSEWORK

Graduate

Applied Mathematics I
Applied Mathematics II
Software Engineering for Scientific Com-
putation
Automatic Control
Modern Control
Computational Fluid Dynamics
Nonlinear System Theory
Dynamical Systems
Machine Learning
Pattern Recognition
Convex and Conic Optimization

Advanced Undergraduate

Linear Algebra
Wavelets and Fourier Series
Differential Equations and Dynamical Sys-
tems
Game Theory
Behavioral Economics
Cross Section and Panel Econometrics

SKILLS

Programming

C · C++ · Python · Matlab · \LaTeX

PROJECT AND TEACHING EXPERIENCE

Porter Ogden Jacobus Fellow | Princeton University

 Starting Sept 2018

- Established in 1905 by Clara Cooley Jacobus, the Jacobus Fellowship is an honorific award reserved for four students who, in the judgment of the University faculty, demonstrate the highest scholarly excellence

Assistant in Research | Princeton University

 Feb 2015 – Present

- Lead a cross-disciplinary team from Princeton, Harvard, UVA, Lehigh, and WCUPA in a MURI project sponsored by the Office of Naval Research to uncover the fluid mechanics of swimming
- Develop optimization methods to solve previously intractable problem
- Experimental, numerical, and analytical work to understand and optimize the performance of the Navy's next-generation underwater vehicle

Assistant in Instruction | Princeton University

 Feb 2016 – Present

- Teach control theory to a senior mechanical engineering class.
- Teach fluid mechanics to a sophomore mechanical engineering class.

LEADERSHIP

Peers

Graduate Student Government	2016 – Present
Graduate Student Committee	2016 – Present
SEAS Orientation on Advising	2016

Community

Founding member of Committee on Climate and Inclusion	2015 – Present
Harlem Prep to Princeton	2015 – Present
Gas Dynamics Lab Demos	2015 – Present
Varsity Boys' Basketball Coach, A. B. Lucas S. S.	2013 – 2014 season

Academic

Advisor: 1 masters thesis, 4 undergraduate summer projects

Member: American Physical Society, American Institute for Aeronautics and Astronautics

Referee: AIAA Journal, Bioinspiration and Biomimetics, International Journal of Heat and Fluid Flow, Journal of Fluid Mechanics, Journal of Fluids and Structures, Physical Review Fluids, Physics of Fluids, Scientific Reports

Chair: American Physical Society DFD Meeting (2017)

AWARDS

Porter Ogden Jacobus Fellowship (2018–2019) · Brit and Eli Harari Fellowship (2017–2018) · SEAS Award for Excellence (2017) · Guggenheim Fellowship (2015–2016) · Sayre Award (2015) · Carles W. Lummis Scholarship (2014–2015) · Princeton Fellowship (2014–2015) · The Sibley Prize (2014) · Frank O. Ellenwood Prize (2014) · Dean's Honour List (all semesters) · Ontario Graduate Scholarship (2014) · NSERC Graduate Scholarship (2014) · Killam Canadian Scholarship (2013) · *Omicron Delta Epsilon* (2013) · *Phi Beta Kappa* (2013) · ELI USR Award (2012–2013) · USR Grant (2012) · NSERC USR Award (2011) · S.T.A.R. Scholarship (2009–2010) · Governor General's Academic Medal (2009)