**Contact Information**

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Phone: (+001) - (917) - 751 - 7340 / (+086) - 13816650001

**Education**

M.S. in Mathematics, New York University 2022.09 - 2024.05 (Expected)

B.A. in Mathematics, New York University (with honors in mathematics) 2018.09 - 2022.05

**Research Interests**

Fluid Dynamics, Collective Locomotion in Fluids, Nonlinear Dynamics, Active Matter, Delay Systems

**Research Projects**

**Research at the NYU Applied Math Lab**

Bird Flight in Linear Formation Since 2022.02

Hydrodynamics of Finite-length Pipes at Intermediate Reynolds Numbers 2020.10 - 2023.03

The Water Clocks 2019.12 - 2020.10

**Publications**

O. Pomerenk, S. Carrillo Segura, F. Cao, **J. Wu**, and L. Ristroph. “Hydrodynamics of finite-length pipes at Intermediate Reynolds Numbers,” *J. of Fluid Mech.* (2023), *vol*. 959, A28.

J. W. Newbolt, N. Lewis, M. Bleu, **J. Wu**, C. Mavroyiakoumou, S. Ramananarivo, and L. Ristroph. “Flow interactions lead to self-organized flight formations disrupted by self-amplifying waves,” Submitted to *Nature Communications* on August 10th, 2023.

**Research Talks**

**The Water Clocks,** Dean’s Undergraduate Research Conference 2021.05

**Work Experience**

**Shanghai Qingtu Education Math & English Tutor**  Summer 2019

**Math Department Course Grader**

Calculus II for Engineers, Applied Partial Differential Equations Fall 2020 **Courant Graduate Employee Adjunct Faculty**

Algebra, Trigonometry & Functions Fall 2022

Chaos and Dynamical Systems Spring 2023

Math for Economics II Fall 2023

**Awards and Honors**

Graduate School of Arts & Science Tuition Scholarship (18666$) 2022-2023

Phi Beta Kappa Honors Society 2022.04

Founders Day Award (University Honors Scholar) 2022.04

Larry & Klara Silverstein Research Scholar 2020.05

Dean’s Undergraduate Research Fund (500$) 2020.05

Dean’s List for Academic Year (all 4 academic years, 2018 - 2022)

**Contact of Referees**

Dr. Leif Ristroph, New York University, [lr1090@nyu.edu](mailto:lr1090@nyu.edu)

Dr. Michael Shelley, New York University/Flatiron Institute, [mshelley@flatironinstitute.org](mailto:mshelley@flatironinstitute.org)

Dr. David McLaughlin, New York University, [dwm1@nyu.edu](mailto:dwm1@nyu.edu)

Dr. Alex Mogilner, New York University, [mogilner@cims.nyu.edu](mailto:mogilner@cims.nyu.edu)