Patrick Flynn

Contact Information	University of C Math Sciences 520 Portola Pl Box 951555 Los Angeles, C	California, Los Angeles Building aza CA 90095	+1 (401) 863-2335 pflynn@math.ucla.edu		
Research Interests	Partial differential equations, kinetic theory, fluid equations				
Employment	University of California, Los Angeles Hedrick Assistant Adjunct Professor (2023-Present)				
Education	Brown University Ph.D. Candidate, Applied Mathematics (2018-2023) M.S. in Applied Mathematics (2020) Advisor: Benoit Pausader				
	Oregon State University B.S. in Mathematics and Physics (2014-2018) Summa Cum Laude				
Publications and Preprints	 Flynn, Patrick. The massless electron limit for the Vlasov-Poisson-Landau system (with Yan Guo). arXiv preprint arXiv:2301.00919 (2023). link 				
	 Scattering map for the Vlasov-Poisson system (with Zhimeng Ouyang, Benoit Pausader, and Klaus Widmayer). Peking Mathematical Journal (2021): 1-28. link 				
	3. The vanishing surface tension limit of the Muskat problem (with Huy Q. Nguyen). Communications in Mathematical Physics 382.2 (2021): 1205-1241. link				
	 Self-organized clusters in diffusive run-and-tumble processes (with Quinton Neville, and Arnd Scheel). Discrete and Continuous Dynamical Systems-Series S 13.4 (2019): 1187-1208. link 				
Invited Talks	Princeton University Fluids Seminar (February 2023)				
	Boston University Dynamics Seminar (September 2022)				
	Brown University PDE Seminar (September 2022)				
	University of Barcelona, Mathematical Analysis Seminar (June 2022)				
	University of Michigan, Differential Equations Seminar (March 2022)				
	Online North East PDE and Analysis Seminar (February 2021)				
Teaching Experience	Fall2022Spring2020Fall2019	Instructor, Single Variable Ca Teaching Assistant, Applied I Teaching Assistant, Applied I	alculus, Part II Partial Differential Equations Partial Differential Equations		
Honors and Awards	2020–2023 2018–2020	National Science Foundation C Presidential Fellowship, Brown	Graduate Research Fellowship I University		

Outreach	2020	Mentor for applied math directed reading program on stochastic control
	2019	Led student workshop on the Rayleigh-Taylor instability at applied math graduate student retreat
Undergraduate Research Experience	2018	Computational Physics Student Summer Workshop Advisors: Juan Saenz, Jesse Canfield Los Alamos National Laboratory
	2017	Complex Systems REU Advisor: Arnd Scheel, Department of Mathematics University of Minnesota, Twin Cities