Vincent R. Martinez

CONTACT CUNY Hunter College

Information Department of Mathematics & Statistics +1-212-772-5791

East Building 918 vrmartinez@hunter.cuny.edu
New York, New York 10065 math.hunter.cuny.edu/vmartine/

RESEARCH Interests Navier-Stokes, Euler, and related hydrodynamic equations, Geophys. fluid dynamics, Turbulence, Well-posedness and Regularity of deterministic and stochastic PDEs, Long-time behavior of dynamical systems, Dispersive equations, Chemotaxis, Data

Assimilation and Inverse problems

Positions Visiting Researcher, Isaac Newton Institute Satellite Programme September 2022

Doctoral Faculty, CUNY Graduate Center Fall 2021–current

Assistant Professor, CUNY Hunter College Aug 2018—current

Postdoctoral Fellow, Tulane University Jan 2015–Jul 2018

Visiting Scholar, Institute of Pure and Applied Mathematics Sep—Dec 2014

EDUCATION Indiana University

Ph.D.. Pure Mathematics

August 2014

Doctoral Thesis: On Gevrey regularity of equations of fluid and geophysical fluid dynamics with applications to 2D and 3D turbulence.

Advisor: Michael S. Jolly

The College of New Jersey

B.A., Mathematics May 2008

Magna Cum Laude with Departmental Honors

Dean's List, 2004-2008

Penn State University

Mathematics Advanced Study Semester (MASS) Program Fall 2007

Best Performance on Analysis Final Exam

Awards & Grants

National Science Foundation

DMS Conference Grant: Four Decades of the Einstein Chair Seminar

Co-PI, Award Number 2303240, \$35,000 2022-2023

DMS Applied Math, Collaborative Research: Effects of Rotation, Stratification,

and Dissipation in Incompressible Fluid Flows

Lead PI, Award Number 2206491, \$106,000 2022-2025

LEAPS-MPS: Dynamical Parameter Estimation for Hydrodynamic Equations Lead PI, Award Number 2213363, \$238,904 2022-2024

CUNY Academy for the Humanities and Sciences

Feliks Gross Award 2023-2024

Mary P. Dolciani Halloran Foundation

Dolciani Faculty Research Fellowship 2023-2024

Professional Staff Congress-City University of New York Research Award Program

PSC-CUNY Traditional A Research Award Cycle 53 PSC-CUNY Traditional A Research Award Cycle 52 PSC-CUNY Traditional A Research Award Cycle 50	2022-2023 2021-2022 2019-2020
Hunter College	
Hunter College Travel Award	2018-2019
Tulane University	
OGPS Postdoctoral Fellow Travel Award	2015-2017
Mathematisches Forschungsinstitut Oberwolfach	
US Junior Oberwolfach Fellow	Summer 2015
Indiana University Bloomington	
Glenn Schober Travel Award	Spring 2014
Rothrock Teaching Award	Spring 2012
Matias Ochoada Fellowship	Fall 2011
Graduate Scholars Fellowship	2008-2009

Published or Accepted Works

- 19. V.R. Martinez, "Convergence analysis of a parameter estimation algorithm for the 2D Navier-Stokes Equations" *Nonlinearity*, DOI 10.1088/1361-6544/ac5362, April 2022.
- E. Carlson, J. Hudson, A. Larios, V.R. Martinez, E. Ng, J.P. Whitehead, "Dynamically learning the parameters of a chaotic system using partial observations" Discrete Contin. Dyn. Sys., DOI 10.3934/dcds.2022033, March 2022.
- 17. M.S. Jolly, A. Kumar, V.R. Martinez, "On local well-posedness of logarithmic inviscid regularizations of generalized SQG equations in borderline Sobolev spaces," *Commun. Pure Appl. Anal.*, DOI 10.3934/cpaa.2021169, August 29, 2021.
- 16. A. Biswas, K.R. Brown, V.R. Martinez, "Mesh-Free Interpolant Observables for Continuous Data Assimilation," *Ann. Appl. Math.*, 38(3), 1–60, 2022.
- M.S. Jolly, A. Kumar, V.R. Martinez, "On existence, uniqueness, and smoothing to the generalized SQG equation in critical Sobolev spaces," *Commun. Math. Phys.*, DOI 10.1007/s00220-021-04124-9, May 20, 2021.
- P.F. Aguilera, V.R. Martinez, and K. Zhao, "A PDE model for chemotaxis with logarithmic sensitivity and logistic growth," accepted in *Contemp. Math. Appl.*, *Monogr. Expo. Lect. Notes*, DOI 10.1142/12639.
- 13. A. Farhat, N.E. Glatt-Holtz, V.R. Martinez, S. A. McQuarrie, and J. P. Whitehead, "Data assimilation in large-Prandtl Rayleigh-Bénard convection from thermal measurements," SIAM J. Appl. Dyn. Syst., 19(1), 510–540, 2020.
- 12. M.S. Jolly, V.R. Martinez, E.J. Olson, and E.S. Titi "Continuous data assimilation with blurred-in-time measurements of the surface quasi-geostrophic equation," *Chin. Ann. Math.*, Ser. B, 40, 721–764, 2019.
- M.S. Jolly, V.R. Martinez, T. Sadigov, and E.S. Titi, "A determining form for the subcritical surface quasi-geostrophic equation," J. Dyn. Differ. Equations, 31, 1457–1494, 2019.
- J. Blocher, V.R. Martinez, and E.J. Olson, "Data assimilation using noisy timeaveraged measurements," *Physica D*, 376-377, 49–59, 2018.

- 9. L.T. Hoang and V.R. Martinez, "Asymptotic expansion for solutions of the Navier-Stokes equations with non-potential body forces," *J. Math. Anal. Appl.* 462(1), 84–113, 2018.
- 8. N. Zhu, Z. Liu. V.R. Martinez, and K. Zhao, "Global Cauchy problem of a system of parabolic conservation laws arising from a Keller-Segel type chemotaxis model," *SIAM J. Math. Anal.*, 50(5), 5380–5425, 2018.
- V.R. Martinez, Z. Wang, and K. Zhao, "Asymptotic and viscous stability of largeamplitude solutions of a hyperbolic system arising from biology," *Indiana Univ.* Math. J., 64(4), 1383–1424, 2018.
- L.T. Hoang and V.R. Martinez, "Asymptotic expansion in Gevrey spaces for solutions of the Navier-Stokes equations," Asymptotic Anal., 167–190, 2017.
- 5. V.R. Martinez and K. Zhao, "Analyticity and dynamics of a Keller-Segel-Navier-Stokes system," *Dyn. Partial Differ. Equ.*, 14(2), 125–158, 2017.
- 4. M.S. Jolly, V.R. Martinez, and E.S. Titi, "A data assimilation algorithm for the subcritical surface quasi-geostrophic equation," *Adv. Nonlinear Stud.*, 35, 167–192, 2017.
- 3. A. Biswas and V.R. Martinez, "Higher-order synchronization for a data assimilation algorithm for the 2D Navier-Stokes equations," *Nonlinear Anal.*, *Real World Appl.*, 35, 132–157, 2017.
- A. Biswas, V.R. Martinez, and P.S. Silva, "On Gevrey regularity of the supercritical SQG equation in critical Besov spaces," J. Funct. Anal., 269(10), 3083–3119, 2015.
- A. Biswas, M.S. Jolly, V.R. Martinez, E.S. Titi, "Dissipation length scale estimates for turbulent flows-a Wiener algebra approach," *J. Nonlinear Sci.*, 24, 441–471, 2014.

Submitted Works

- 6. A. Larios, V.R. Martinez, "Remarks on the large-scale stabilization of the 2D Kuramoto-Sivashinsky Equations," arXiv:2401.04888, pp. 1–19, Jan 2024.
- 5. A. Kumar, V.R. Martinez, "On well-posedness of a mildly dissipative family of active scalar equations in borderline Sobolev spaces," arXiv:2309.05844v1, pp. 1–48, Sep 11, 2023.
- 4. A. Farhat, A. Larios, V.R. Martinez, B. Pachev, J.P. Whitehead, "Conjuring the force from sparse observations in fluid flows," arXiv:2302.04701v1, pp. 1–15, Feb 9, 2023.
- 3. N.E. Glatt-Holtz, V.R. Martinez, and H. D. Nguyen, "The short memory limit for long-time statistics in a stochastic Coleman-Gurtin model of heat conduction," arXiv:2212.05646v1, pp. 1–71, Dec 12, 2022.
- 2. V.R. Martinez, "On the reconstruction of unknown driving forces from low-mode observations in the 2D Navier-Stokes Equations," arXiv:2208.00541v1, pp. 1–15, Jul 31, 2022.
- 1. N.E. Glatt-Holtz, V.R. Martinez, G.H. Richards, "On the long-time statistical behavior of smooth solutions of the weakly damped, stochastically-driven KdV equation," arXiv:2103.12942v1, pp. 1–70, Mar 23, 2021.

Works in Preparation

- 3. Q. Lin, V.R. Martinez, "Inferring anistropic viscosity and thermal diffusivity in the 3D Primitive Equations for the Ocean and Atmosphere via low-mode observations"
- 2. V.R. Martinez, J. Murri, B. Pachev, and J.P. Whitehead, "Relax, then punch: A unified approach to parameter recovery in nonlinear PDEs"
- 1. J. Broecker, G. Carigi, T. Kuna, V.R. Martinez "Nudging-based algorithms for inferring unknown external forces of quasi-finite type in transport-diffusion and 2D Navier-Stokes equations"

SEMINARS AND COLLOQUIA

BYU Applied Analysis Seminar	Provo, UT
UMBC Differential Equations Seminar	November 16, 2023 Baltimore, MD
-	October 30, 2023
CU Boulder Geometry & Analysis Seminar	Boulder, CO October 27, 2023
UNL PDE & Applied Analysis Seminar	Lincoln, NE
· · · · · ·	October 4, 2023
University of Virginia Probability Seminar	Charlottesville, VA
IIC Santa Barbara Applied / DDF / Data Science Seminar	April 28, 2023 Santa Barbara, CA
UC Santa Barbara Applied/PDE/Data Science Seminar	April 21, 2023
SUNY New Paltz Harrington Lectures	New Paltz, NY
	March 7, 2023
Florida State University Mathematics Colloquium	Tallahassee, FL
Florida Stata University DDE Cominar	March 3, 2023 Tallahassee, FL
Florida State University PDE Seminar	February 27, 2023
CUNY GC Graduate Student Colloquium	New York, NY
•	November 14, 2022
CCNY Mechanical Engineering Seminar	New York, NY
University of Common Demonstral Costoms and DDE Coming	October 20, 2022
University of Surrey Dynamical Systems and PDE Seminar	Guildford, UK September 16, 2022
Brigham Young University PDE Seminar	Provo, UT
· · ·	July 8, 2022
University of Arkansas Analysis Seminar	Fayetteville, AR
W. din do II.	April 7, 2022
Washington University St. Louis Analysis Seminar	(Remote) December 6, 2021
Penn State Probability and Financial Mathematics Seminar	(Remote)
v	December 3, 2021
Oregon State University Analysis Seminar	(Remote)
CIMV Ctony Ducal, Analysis Cominan	November 15, 2021
SUNY Stony Brook Analysis Seminar	Stony Brook, NY November 5, 2021
Texas A&M Nonlinear PDEs Seminar	(Remote)
	November 2, 2021
IU PDE Seminar	Bloomington, IN
SUNY New Paltz Machine Learning Seminar	October 25, 2021 (Remote)
SOLLI Men I and Machine Dearning Seminar	October 20, 2021
University of Southern California CAMS Colloquium	(Remote)
	October 18, 2021

University of Cincinnati Analysis and PDE Seminar	Cincinnati, OH October 15, 2021
Texas Tech Probability, Differ. Geometry and Math. Physics	
Texas Tech I lobability, Diller. Geometry and Math. I hysics	October 6, 2021
University of Bremen Applied Analysis Seminar	(Remote)
Chiversity of Bremen Applied Analysis Seminar	June 15, 2021
Pavia-Milano Seminar on Probability and Math. Statistics	(Remote)
Tavia Milano Schillar on Frontoning and Mann. Statistics	June 14, 2021
Tulane University Applied and Computational Math Seminar	
Talano om volstoj rippilea ana compatationar riatir seminar	April 23, 2021
CUNY GC Einstein Chair Mathematics Seminar	(Remote)
	April 13, May 4, 2021
UI Chicago Analysis and Applied Math Seminar	(Remote)
T T S S S S S S S S S S S S S S S S S S	March 15, 2021
Rutgers University-Newark Physics Colloquium	(Remote)
	February 26, 2021
CUNY GC Data Science and Applied Topology Seminar	(Remote)
	Oct 23, Nov 13 2020
UMBC Differential Equations Seminar	(Remote)
	October 19, 2020
CUNY GC Harmonic Analysis and PDE Seminar	(Remote)
	October 2, 2020
Clarkson Mathematics Colloquium	(Remote)
	September 28, 2020
CUNY GC Harmonic Analysis and PDE Seminar	(Remote)
	May $1, 2020$
Drexel PDE and Applied Mathematics Seminar	Philadelphia, PA
	March 5, 2020
Princeton University Analysis of Fluids Seminar	Princeton, NJ
HI DDD (C.)	February 6, 2020
IU PDE Seminar	Bloomington, IN
CHNY CC North Andrew A DDE Coming	April 8, 2019
CUNY GC Nonlinear Analysis and PDE Seminar	New York, NY February 28, 2019
Queensborough Community College Mathematics Colloquium	• ,
Queensborough Community Conege Mathematics Conoquium	February 27, 2019
CCNY Mathematics Colloquium	Manhattan, NY
CONT Mathematics Conoquian	February 21, 2019
UMBC Applied Mathematics Colloquium	Baltimore, MD
Chizo Tippica Tianienavio Conoquiani	December 7, 2018
NJIT Fluids and Waves Seminar	Newark, NJ,
	October 29, 2018
Bronx Community College Mathematics Colloquium	Bronx, NY,
_	October 23, 2018
UC San Diego Analysis Seminar	San Diego, CA,
	May 15, 2018
UC Santa Barbara Applied Math & PDE Seminar	Santa Barbara, CA,
	January, 19, 2018
Xavier University of Louisiana Mathematics Seminar	New Orleans, LA
	November 7, 2017
Utah State University Mechanical & Aerospace Engineering Seminar Logan, UT	
LICI A Analysis & DDE Coming	November 2, 2016
UCLA Analysis & PDE Seminar	Los Angeles, CA
	October 28, 2016

University of Nevada-Reno Colloquium Reno, NV October 13, 2016 Brigham Young University PDE Seminar Provo, UT October 10, 2016 University of Virginia Harmonic Analysis & PDE Seminar Charlottesville, VA December 1, 2015 University of Wyoming Analysis Seminar Laramie, WY September 3, 2014 Tulane University, Applied and Computational Math Seminar New Orleans, LA March 28, 2014 SEMINARIAL Einstein Chair Seminar with Dennis Sullivan (CUNY Graduate Center) ACTIVITIES Tuesdays 1:45-2:50pm Summer 2021-current Harmonic Analysis & PDEs Seminar with Ioakeim Ampatzoglou, Dan Ginsberg, Azita Mayeli (CUNY Queensboro Community College), Weilin Li (CUNY City College) Fridays 2:00-3:00pmSummer 2020-current Hunter College Mathematics Colloquium (HCMC) Thursdays 4:30-5:30pm Fall 2019-current Data Science & Applied Topology Seminar with Azita Mayeli (CUNY Queensboro Community College) and Mikael Vejdemo-Johansson (CUNY Staten Island) Fridays 12:00-1:00pm Fall 2020–Spring 2021 Nonlinear Analysis & PDEs Seminar with Marcello Lucia (CUNY Staten Island) Thursdays 4:15-5:15pm Spring 2019–Spring 2020 Conferences, AMS-MAA Joint Mathematics Meeting San Francisco, CA Workshops, & Invited Speaker in Dynamics and Regularity of PDEs January 3-6, 2024 SUMMER SCHOOLS 4th Annual OURFA2M2 Conference (Remote) Crash Course Lecturer November 18-19, 2023 AIMS Workshop: Small Scale Dynamics in Incompress. Fluid Flow Pasadena, CA November 6-10, 2023 Invited Participant 9th ISDA 2023 (International Symposium on Data Assimilation) Bologna, Italy Invited Speaker in Novel Mathematical Ideas in D.A. October 16-20, 2023 8th SIAM Central States Section Annual Meeting Lincoln, Nebraska Invited Speaker in Rec. Dev. Det. Sto. PDE: Theo. Num. Anal. October 7-8, 2023 Invited Speaker in Rec. Adv. Anal. Learn. Differ. Equ. & Oper. October 7-8, 2023 ICIAM 2023 (International Congress on Industrial & Appl. Math.) Tokyo, Japan Invited Speaker in Theory, Num. & Data-driv. meth. for fluids August 20-25, 2023 Symposium on Applied Mathematics and Data Science July 18-19, 2023 Invited Speaker in Theory and Application of Nonlinear PDEsHong Kong (Hybrid) Portland, OR SIAM Conference on Applications of Dynamical Systems Invited Speaker in Rig. & Comp. Stud. of D.A. & Parameter Est. May 14-18, 2023 Second Drexel Waves Workshop Philadelphia, PA Invited Speaker March 30-31, 2023 BIRS Workshop on Mathematical Approaches of Atmospheric Constituents Data Assimilation and Inverse Modeling Virtual March 20-24 2023 Invited Speaker AMS Spring Southeastern Sectional Meeting Atlanta, GA Invited Speaker in Qual. Asp. Nonlin. PDE: Well-posed. & Asy. Mar 18-19, 2023 Invited Speaker in Stochastic Analysis and its Applications Mar 18-19, 2023 AMS Fall Western Sectional Meeting Salt Lake City, UT Invited Speaker in Recent Adv. in the Theory of Fluid Dynamics Oct 22-23, 2023 SIAM Central States Section Stillwater, OK

Invited speaker in PDEs and Dynamical Systems	Oct 1-2, 2022
-	· · · · · · · · · · · · · · · · · · ·
CRM Workshop: Unifying Concepts in PDEs with Randomnes	
Invited Participant	May 15-28, 2022
AIMS Workshop: Crit. & Stoch. in Quasilinear Fluid Systems	
Invited Participant	May 2-6, 2022
12th IMACS International Conference on Nonlinear Evolution	-
Phenomena: Computation and Theory	Athens, GA
Invited Speaker in Asymptotics and Integrable systems	March 30-April 1
SIAM Conference on Analysis of PDEs	Virtual
Invited Speaker in Th. Appl. of Data Assim. with Param. Est	. March 14-18, 2022
MCA 2021 (Mathematical Congress of the Americas)	Virtual
,	July 15, 16, 19, 2021
AMS-MAA Joint Mathematics Meeting	Virtual
Invited speaker in Geo. Fluid Dyn., Turb., and D.A	January 6-9, 2021
AMS Fall Western Sectional Meeting	Virtual
Invited speaker in PDEs, Data Assim., & Inverse Problems	October 24-25, 2020
AMS Fall Central Sectional Meeting	Virtual
- · · · · · · · · · · · · · · · · · · ·	eptember 12-13, 2020
AMS-MAA Joint Mathematics Meeting	Denver, CO
Invited speaker in Det. & Prob. Approaches for Nonlin. PDEs	
SIAM Conference on Analysis of Partial Differential Equations	La Quinta, CA
Invited speaker in Rig. & Comp. Stud. of Data Assimilation D	December 11-14, 2019
Hausdorff Institute of Mathematics (HIM) Trimester Program of	n Randomness, PDEs
& Nonlinear Fluctuations	Bonn, Germany
Invited Speaker in Workshop on Stochastic Fluid Dynamics N	ovember 10-15, 2019
SIAM Northern States Sectional Meeting	Laramie, WY
· · · · · · · · · · · · · · · · · · ·	eptember 27-29, 2019
ICIAM 2019 (International Congress on Industrial & Appl. Ma	-
Invited Speaker in Recent Adv. in Infinite Dim. Stoch. Analys	
Recent Advances in Pure and Applied Stochastics	New Orleans, LA
Invited Speaker	March 14-16, 2019
AMS Fall Southeastern Sectional Meeting	Fayetteville, AR
Invited Speaker in Recent Advances in Math. Fluid Mech.	November 3-4, 2018
AMS Fall Western Sectional Meeting	Ann Arbor, MI
Invited Speaker in Anal. and Num. Aspects of Turb. Trans.	October 20-21, 2018
Banff Int. Research Station: Reg. & Blow-up of NS-Type PDF	
Participant	August 19-24, 2018
AIMS Conference Series on Dyn. Sys. and Differ. Eqns.	Taipei, Taiwan
Invited Speaker	July 9, 2018
AMS-MAA Joint Mathematics Meetings	San Diego, CA
Invited Speaker	January 9-13, 2018
MCA 2017 (Mathematical Congress of the Americas)	
Invited Speaker	Montreal, Canada
THURUCA DECARCI	Montreal, Canada July 24-28, 2017
	July 24-28, 2017
Workshop on Probabilistic Perspectives in Nonlinear PDEs	July 24-28, 2017 Edinburgh, Scotland
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn.	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker AMS Spring Eastern Sectional Meeting	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017 New York, NY
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker AMS Spring Eastern Sectional Meeting Invited speaker	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017 New York, NY May 6-7, 2017
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker AMS Spring Eastern Sectional Meeting Invited speaker Workshop on Nonlinear Waves: Analysis and Applications	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017 New York, NY May 6-7, 2017 Pittsburgh, PA
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker AMS Spring Eastern Sectional Meeting Invited speaker Workshop on Nonlinear Waves: Analysis and Applications Invited Participant	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017 New York, NY May 6-7, 2017 Pittsburgh, PA March 17-19, 2017
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker AMS Spring Eastern Sectional Meeting Invited speaker Workshop on Nonlinear Waves: Analysis and Applications Invited Participant IPAM Workshop on Turbulent Dissip., Mixing and Predictabil	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017 New York, NY May 6-7, 2017 Pittsburgh, PA March 17-19, 2017 ity Los Angeles, CA
Workshop on Probabilistic Perspectives in Nonlinear PDEs Invited Speaker Essence of $(u \cdot \nabla)u$: Reflections on Math. Fluid Dyn. Invited Speaker AMS Spring Eastern Sectional Meeting Invited speaker Workshop on Nonlinear Waves: Analysis and Applications Invited Participant	July 24-28, 2017 Edinburgh, Scotland June 5-9, 2017 Charlottesville, VA May 11-13, 2017 New York, NY May 6-7, 2017 Pittsburgh, PA March 17-19, 2017

Invited Speaker in PDEs for Fluid flow	January 4-7, 2017
1st Northeastern Analysis Meeting (NEAM)	Brockport, NY
Invited Speaker	October 14-16, 2016
AMS Fall Western Sectional Meeting	Denver, CO
Invited Speaker in Nonlinear and Stochastic PDEs	October 8-9, 2016
2016 IMA Summer Graduate Program: Mathematics and Cl	,
	July 18-August 5, 2016
IMA Special Workshop: "Dynamics and Differential Equation	
Invited Participant	June 22-25, 2016.
IPAM Long Program Reunion: Mathematics of Turbulence	Lake Arrowhead, CA
Invited Speaker	June 5-10, 2016.
-	
Analysis & Beyond: Celebrating J. Bourgain's Work & Impa	
Participant	May 21-24, 2016.
2016 International Conf. on Evol. Eqn. & 31st Ann. Shanks	
Invited Speaker	May 16-20, 2016
The Foias Lectures: Peter Constantin	College Station, TX
Participant	April 25-28, 2016
Analysis of PDEs of Fluid Mechanics and Related Models W	± ,
Participant	October 10-13, 2015
MFO Mathematical Aspects of Hydrodynamics Oberwo	olfach-Walke, Germany
Invited Participant	August 9-15, 2015
CIRM Summer School on Transport, Fluids, and Mixing	Levico Terme, Italy
Participant	July 19-24, 2015
AMS Spring Western Sectional Meeting	Las Vegas, NV
Invited Speaker in Nonlinear Conservation Laws	April 19, 2015
NSF-CBMS RRC: Problems of PDEs related to fluids	Stillwater, OK
Participant	July 21 - 25, 2014
MSRI Summer Graduate School in Dispersive PDE	Berkeley, CA
Participant	June 16-27, 2014
-	
4th Workshop on Fluids and PDE at IMPA	Rio de Janeiro, Brazil
Invited speaker	May 26-30, 2014
Workshop on Analysis of Nonlinear PDEs and Fluid Flows	Baltimore, MD
Invited speaker	January 19-20, 2014
AMS-MAA Joint Mathematics Meeting	Baltimore, MD
Participant	January 15-18, 2014
SIAM Conference on Analysis of Partial Differential Equation	
Invited talk in Analysis of NSE and Related Fluid Models	December 7-10, 2013
72nd Midwest PDE Seminar	West Lafayette, IN
Participant	November 16-17, 2013
AMS Fall Southeastern Sectional Meeting	Louisville, KY
Invited talk in PDEs from Fluid Mechanics	October 5-6, 2013
Stanford Summer School: Recent Adv. in PDEs & Fluids	Palo Alto, CA
Participant and Contributed talk	August 5-18, 2013
AMS MRC: Regularity Problems for PDEs Modeling Fluids	Snowbird, UT
Participant	June 25-July 1, 2013
Geostrophic Turb. and Active Tracer Transport in 2D	Princeton, NJ
Participant	March 13-15, 2013
IU Dissipative Systems Workshop	Bloomington, IN
Invited speaker	February 8-10, 2013
9th AIMS Conference	Orlando, FL
Invited talk in SS#30: Recent Developments on Turbulence	July 1-5, 2012
AMS Spring Central Section Meeting	Lawrence, KS
-	March 30-April 1, 2012
Workshop on Study of Turb. in Phys. Sys. Through Comple	A Ding. & Det. Modes

College Station, TX Invited speaker Incomp. Fluids, Turb. & Mix.: P. Constantin's 60th Birthday Participant 3rd Workshop on Fluids and PDE at UNICAMP Participant	February 17-20, 2012 Pittsburgh, PA October 13-16, 2011 Campinas, Brazil June 27-July 1, 2011
ICIAM 2023 (International Congress on Industrial & Appl. M	, , .
Assimilation (with J. Broecker and S. Pathiraja)	August 20-25, 2023
Minisymposium co-organizer: Recent Advances on Regularit	y and Irregularity of
AMS Spring Central Sectional Meeting Special session co-organizer: Recent Developments in the St	
AMS Spring Eastern Sectional Meeting Special session co-organizer: Recent Advances in Infinite-Di	April 15-16, 2023 Virtual mensional Stochastic
Analysis, (with N. Glatt-Holtz and H. Nguyen) Four Decades of the Einstein Chair Seminar	April 1-2, 2023 New York, NY
Conference co-organizer (with A. Basjmajian, B. Ferlengez, F. J. Hu, L. Keen, J. Kofman, S. Wilson, M. Zeinglian)	
AMS Fall Western Sectional Meeting	Salt Lake City, UT
Systems (with A. Larios and J.P. Whitehead)	Oct 22-23, 2022
	Virtual Data-Driven Appr. in
Fluid Dynamics (with A. Farhat and A. Pakzad)	March 26-27, 2022 Virtual
Mini symposium co-organizer: Mathematics of Fluids: Analys	sis & Comput. (with May 23-27, 2021
SIAM Conference on Mathematics of Data Science	Virtual
(with A. Farhat)	June 29-30, 2020
Mini symposium co-organizer (with T. Drivas and H. Nguyen)	
Special Session co-organizer: Anal. & Appl. of Det. & Stoch.	
ICIAM 2019 (International Congress on Industrial & Appl. M. Minisymposium co-organizer: Recent developments in nonlinear	
SIAM Conference on Analysis of Partial Differential Equations	
(with A. Farhat)	December 9-12, 2017 Snowbird, UT
Minisymposium co-organizer: Recent Developments in Data .	,
SIAM Conference on Analysis of Partial Differential Equations Minisymposium co-organizer: Fluid Models, Turbulence and Da A. Biswas & M.S. Jolly)	s Scottsdale, AZ
	Invited speaker Incomp. Fluids, Turb. & Mix.: P. Constantin's 60th Birthday Participant ICIAM 2023 (International Congress on Industrial & Appl. M Minisymposium co-organizer: Data-driven and Physics-informed Assimilation (with J. Broecker and S. Pathiraja) ICIAM 2023 (International Congress on Industrial & Appl. M Minisymposium co-organizer: Recent Advances on Regularit Fluids Flows (with A. Farhat and E. Lunasin) AMS Spring Central Sectional Meeting Special session co-organizer: Recent Developments in the St Turbulence, and its Applications (with S. Punshon-Smith) AMS Spring Eastern Sectional Meeting Special session co-organizer: Recent Advances in Infinite-Di Analysis, (with N. Glatt-Holtz and H. Nguyen) Four Decades of the Einstein Chair Seminar Conference co-organizer (with A. Basjmajian, B. Ferlengez, F J. Hu, L. Keen, I. Kofman, S. Wilson, M. Zeinalian) AMS Fall Western Sectional Meeting Special Session co-organizer: Data, Parameters & Inverse Pro Systems (with A. Larios and J.P. Whitehead) AMS Spring Central Sectional Meeting Special Session co-organizer: Analytical, Computational, and I Fluid Dynamics (with A. Farhat and A. Pakzad) SIAM Conference on Dynamical Systems Mini symposium co-organizer: Mathematics of Fluids: Analys C.F. Mondaini) SIAM Conference on Mathematics of Data Science Mini symposium co-organizer: Bridging Data Assim. with I (with A. Farhat) SIAM Conference on Analysis of Partial Differential Equations Mini symposium co-organizer: Anal. & Appl. of Det. & Stoch. Yamazaki) ICIAM 2019 (International Congress on Industrial & Appl. M Minisymposium co-organizer: Recent developments in nonlinea mathematical biology (with M.S. Jolly and K. Zhao) SIAM Conference on Analysis of Partial Differential Equations Minisymposium co-organizer: Recent developments in nonlinea mathematical biology (with M.S. Jolly and K. Zhao) SIAM Conference on Analysis of Partial Differential Equations Minisymposium co-organizer: Recent Developments in Data Maclean and C. Mondaini) SIAM Conference on Analysis of Partia

COMMUNITY SERVICE

TD.		
TEACHING	CUNY Graduate Center, Instructor	1 10 1
Experience	MATH 856 Introduction to Partial Differential Eq.	1 semester, 10 students
	CUNY Hunter College, Instructor MATH 795 Analysis of Partial Differential Eq.	1 semester, 10 students
	MATH 750 Analysis of Partial Differential Eq.	1 semester, 10 students 1 semester, 10 students
	MATH 746 Functions of a Real Variable I	2 semesters, 15 students
	MATH 742 Analytic Functions	2 semesters, 10 students
	MATH 685 Numerical Analysis	1 semester, 10 students
	MATH 454 Calculus on Manifolds	1 semester, 10 students
	MATH 385 Numerical Analysis	1 semester, 20 students
	MATH 254 Ordinary Differential Equations	1 semester, 30 students
	STAT 702 Advanced Probability II	1 semester, 15 students
	STAT 701 Advanced Probability I	1 semester, 20 students
	Tulane University, Instructor	,
	M4470 Analytical Methods in Applied Math.	2 semesters, 20 students
	M2240 Introduction to Applied Mathematics	1 semester, 80 students
	M2210 Calculus III, Honors	1 semester, 10 students
	M2210 Calculus III	1 semester, 30 students
	Indiana University, Instructor	,
	M119 Brief Survey of Calculus I	3 semesters, 90 students
	J113 Introduction to Calculus with Applications	3 semesters, 20 students
	J112 Introduction to College Math I	2 semesters, 30 students
	J111 Introduction to College Math I	1 semester, 30 students
	J110 Introductory Problem Solving	1 semester, 20 students
	M014 Basic Algebra	1 semester, 10 students
	Indiana University, Teaching Assistant	
	T101 Math for Elementary Teachers	2 semesters, 90 students
MENTORING	Polymath Ir Project Ment	or Summer 2023-current
Mentoring		or, Summer 2023-current
MENTORING	Math Alliance M	Mentor, Fall 2020-current
MENTORING	Math Alliance Alliance N Raymond Saldana	Mentor, Fall 2020-current Fall 2023
MENTORING	Math Alliance Alliance N Raymond Saldana Jose Armando Sanchez Diaz	Mentor, Fall 2020-current Fall 2023 Fall 2022
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Alliance Mathematical Alliance Mathematical Saldana	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021
Mentoring	Math Alliance Alliance N Raymond Saldana Jose Armando Sanchez Diaz	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021
MENTORING	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Diagonal Colorado School of Diagonal Chitagonal Chitag	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021
MENTORING	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current
MENTORING	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A.
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A.
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Applied Math M.A.
MENTORING	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Applied Math M.A.
MENTORING	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation	Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Applied Math M.A.
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Elementario Statistics PhD) Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Applied Math M.A.
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Elementario Statistics PhD) Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery Hassami Sawadogo	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current Applied Math M.A.
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Elementario Statistics PhD) Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery Hassami Sawadogo Kalman Filter in Financial Applications	Mentor, Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current Pure Math M.A. Summer 2022-current Applied Math M.A. Fall 2023
Mentoring	Math Alliance Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Elementario Statistics PhD) Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery Hassami Sawadogo Kalman Filter in Financial Applications Jose Armando Sanchez Diaz	Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current Applied Math M.A. Fall 2023 Applied Math M.A.
Mentoring	Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Elementario Statistics PhD) Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery Hassami Sawadogo Kalman Filter in Financial Applications Jose Armando Sanchez Diaz Parameter recovery for nonlinear systems	Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current Applied Math M.A. Fall 2023 Applied Math M.A. Fall 2023
Mentoring	Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery Hassami Sawadogo Kalman Filter in Financial Applications Jose Armando Sanchez Diaz Parameter recovery for nonlinear systems Bastian Sierra	Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current Applied Math M.A. Fall 2023 Applied Math M.A. Fall 2023 Applied Math M.A. Fall 2023 Applied Math M.A.
Mentoring	Raymond Saldana Jose Armando Sanchez Diaz Isabella Chittumuri Statistics PhD (Colorado School of Elementario Statistics PhD) Hunter College Katie Trimper Machine Learning techniques for parameter estimation Sergey Kurbakov Physics-Informed Neural Networks for SDEs Gabe Levine Physics-Informed Neural Networks & Data Assimilation Sanjay Bajnath Finite-dimensional steady states of inviscid fluids Brian Holliday Model Identification of the Lorenz 63 equations Michael Pallante Observability and Parameter Recovery Hassami Sawadogo Kalman Filter in Financial Applications Jose Armando Sanchez Diaz Parameter recovery for nonlinear systems	Fall 2020-current Fall 2023 Fall 2022 Spring 2021 Mines) Fall 2023-current Applied Math M.A. Fall 2023-current Applied Math M.A. Summer 2023-current Pure Math M.A. Summer 2023-current Pure Math M.A. Summer 2022-current Applied Math M.A. Fall 2023 Applied Math M.A. Fall 2023

Customization of YOLOv5 & Analysis	of MTA Turnstile Data Spring-Fall 2022
Fardous Sabnur	Applied Math M.A.
Robust Object Tracking and Re-Identifi	cation Spring 2022
Tatiana Mross	Applied Math M.A.
Assessing Economic Impact of NJ Tran	nsit Villages Spring 2022
Caihua Chen	Applied Math M.A.
Parameter Identifiability for Linear Dy	
	urer at Hunter College Fall 2022–current
Yanlin Ou	Applied Math M.A.
Parameter Identifiability for Linear Dy	
* * * *	urer at Hunter College Fall 2022–current
Keven Calderón	Applied Math M.A.
Numerical Compar. of Param. Est. Te	
Nathan Taylor	Applied Math M.A.
Dynamical Parameter Estimation in Li	
	earcher at Redesign Science 2021-current
Bart Rosenzweig	Applied Math M.A.
MA Thesis: Anal. & Comp. of Exact I Math PhD (Factorization for NLS Spring 2020-2021 The Ohio State University) 2021-current
Kenneth Brown	Pure Math M.A.
MA Thesis: Higher-order Synch. for N	Fudging 2D NSE Spring 2020-2021
· ·	Math PhD (UC Davis) 2021-current
Eunice Ng	Pure Math M.A.
~	imation for Lorenz 63 Spring 2020-2021
	D (Stony Brook University) 2021-current
Sanjit Gill	Applied Math M.A.
Markov Chain Monte Carlo Methods fo	
iname eman ineme earte inemede je	Director at Mackay Shields LLC
Melissa DiMaio	Applied Math M.A.
On the Fermi-Pasta-Ulam-Tsingou par	
On the Fermi-1 asta-Otam-1 singou par	
D:-1 C	Adjunct Lecturer at Hunter College
Daniel Grange	Applied Math M.A.
Steady States of 2D Euler with Finite I	1 0 11
	D (Stony Brook University) 2021-current
Paul Popa	Applied Math M.A.
Dynamic Mean-Adjustment for Filterin	
	Analyst System2
Ariel Glassberg	Pure Math M.A.
Bayesian Parameter Estimation for Lo	
	Math MA (UNC Chapel Hill) 2020-2023
	Raytheon Technologies 2023-current
Weiyan Lin	Pure Math M.A.
Electron Orbitals for the Hydrogenic Ar	
,	Math PhD (CUNY GC) 2021-current
Jared Berman	Applied Math M.A.
Bayesian DA for a model of Brand Att	
Dayestan D11 for a model of Drana 11tt	Senior Data Engineer at The RealReal
Aidin Murtha	Pure Math M.A.
	er at Hunter College Spring 2020–current
	in the Critical Sobolev Space Fall 2019
Michael Ferguson	Applied Math M.A.
Adaptive Nudging Schemes for DA of I	Lorenz 63 Spring 2019
lane University	D . 1 1
Rosa 'Padi' Fuster Aguilera	Postdoctoral Fellow (UC Boulder)

2016 IMA Summer Graduate Program: Mathematics and Climate

Mentor: group project mentor on Lagrangian Data Assimilation involving three graduate students (Colin Guider (UNC-Chapel Hill), Kiwon Lee, (Seoul National University), Luyu Sun (UMD-College Park))

Teaching Assistant: lead group discussions and problem solving sessions

University & Departmental Service

Hunter College Fulbright Scholar-in-Residence Planning Committee Spring 2024

Train and prepare application to host scholar-in-residence at Hunter College

Awards Committee Spring 2023-current

 $Deliberate\ on\ distribution\ of\ various\ student\ awards$

Graduate Admissions Committee Chair Fall 2022-current Finalize decisions on graduate admissions

Dolciani Depute Director Search Committee Review applications and interview candidates for position

Applied Math MA Graduate Advisor Summer 2020-current

Fall 2022

Course advisement and approvals, Recruitment, Project & Thesis adviser

Department Educational Policy Committee Fall 2019–current

Curriculum review, revision, and approval

EDITORIAL ACTIVITIES Reviewer for AIMS Math., AMS MathSciNet, Amer. Math. Monthly, Anal. Appl., Ann. of Appl. Math., Applicable Anal., Bull. des Sciences Mathématiques, Commun. Math. Phys., Commun. Math. Res., Commun. Math. Sci., Complex Analysis & Operator Theory, Computer Methods in Appl. Mech. & Engin., Computers & Math. with Appl., Discrete & Contin. Dyn. Syst., Dyn. Sys., Evol. Equ. Control Theory, Indiana University Math. Journal, Int. Math. Res., J. Comput. Sci., Journal of Differ. Equ., J. Evol. Equ., J. Math. Anal. Appl., J. Math. Phys., J. Nonlinear Anal., J. Nonlinear Sci., J. Phys. A, J. Pure Appl. Funct. Anal., J. Theor. Probab., Math. Methods in Appl. Sci., Mathematische Nachrichten, Mathematische Zeitschrift, Nonlinearity, Nonlinear Anal., Open Math., Physica D, Physica Scripta, Proc. A of the Roy. Soc. Edinburgh, Results in Appl. Math., Revista de la Real Academia de Ciencias Exactas: Físicas y Naturales. Serie A. Matemáticas (40 journals)

REVIEW PANELIST

National Science Foundation

PSC-CUNY Research Award Program