Contact Information	University of California Berkeley Department of Mathematics 931 Evans Hall Berkeley CA	ktawri@berkeley.edu https://math.berkeley.edu/~ktawri/				
Education	<ul><li>Indiana University, Bloomington</li><li>Ph.D., Mathematics, June 2022</li><li>Advisor: Roger Temam</li></ul>	on				
	<b>Birla Institute of Technology a</b> Bachelors (honors) in Mathemati	nd Science, Pilani, India. cs, May 2015				
Appointments	<b>University of California Berkeley</b> Charles B. Morrey Visiting Assistant Professor, July 2022 - present					
PUBLICATIONS	<ol> <li>M. Hamouda, D. Han, C. Jung, K. Tawri, R. Temam, Boundary layers for the subcritical modes of the 3D primitive equations in a cube, J. Dif- ferential Equations 267(1) (2019), 61-96.</li> </ol>					
	[2] P. Nguyen, K. Tawri, R. Te tial differential equations with Smagorinsky type, driven by a (2021).	emam, Nonlinear stochastic parabolic par- a monotone operator of the Ladyzenskaya- a Lévy noise, J. Functional Analysis <b>281</b> (8)				
	[3] K. Tawri, R. Temam, <i>Hilbert</i> Pure and Applied Functional	tian approximation of monotone operators, Analysis $7(1)$ (2022), 357-387.				
	[4] W. Kim, K. Tawri, R. Temam, phase-field model for thrombu Exactas Fis. Nat. Ser. A-Mat	Local well-posedness of a three-dimensional as and blood flow, Rev. Real Acad. Cienc. 5. <b>116</b> (4) (2022).				
	<ul><li>[5] K. Tawri, On upper-semicontin Asymptotic Analysis. 130 (3-</li></ul>	nuity of the Allen-Cahn twisted eigenvalues, 4) (2022), 323-334.				
	[6] W-T. L. Fan, A. Pakzad, K. with Lévy noise at the bounda tainty and Quantitative Risk,	Tawri, R. Temam, <i>Shear driven turbulence</i> <i>ry in three dimensions</i> , Probability, Uncer- special edition, <b>8</b> (1) (2023), 75-94.				
	<li>[7] K. Tawri, S. Čanić, Existence coupled stochastic fluid-struct submitted.</li>	e of martingale solutions to a nonlinearly ure interaction problem, arXiv:2310.03961,				

	<ul> <li>[8] K. Tawri, A 2D stochastic nonlinearly coupled fluid-structure interaction problem in compliant arteries with unrestricted structural displacement, arXiv:2311.06987, submitted.</li> <li>[9] K. Tawri, A stochastic fluid-structure interaction problem with Navier slip boundary condition, arXiv:2402.13303, submitted.</li> <li>[10] J. Kuan, K. Tawri, Existence of solutions to a stochastic fluid-structure interaction problem of compressible fluid flow interacting with an elastic shell, in preparation.</li> </ul>			
	[11] S. <i>pre</i>	Čanić, B oblem wi	Muha, K. Tawri, Analysis of a 3D fluid-structure interaction th unrestricted structure displacement, in preparation.	
Books	<ol> <li>S. Čanić, J. Kuan, B. Muha, K. Tawri Deterministic and Stochastic Fluid- Structure Interaction, to be published in Advances in Mathematical Fluid Mechanics, Birkhäuser/Springer, 2024.</li> </ol>			
VISITING	2015-20	)16	Institute for Scientific Computing and Applied Mathematics.	
EXPERIENCE			Host: Roger Temam, Department of Mathematics.	
	2015		National University of Singapore, Singapore.	
			Host: Xingwang Xu, Department of Mathematics.	
Seminar talks	Oct	2023	Modeling, Analysis and Simulation in Applied PDEs Semi- nar, UC Berkeley.	
	Sept	2023	Harmonic Analysis and Differential Equations Seminar, UC Berkeley.	
	Nov	2022	MUSA, Math Monday lecture series, UC Berkeley.	
	Oct	2022	Postdoctoral talks, UC Berkeley.	
	Sept	2022	Applied Math Seminar, UC Berkeley-Lawrence Berkeley National Lab.	
	April	2022	Modeling, Analysis and Simulation in Applied PDEs Semi- nar, UC Berkeley.	
	Mar	2022	CNA PDE seminar at Carnegie Mellon University.	
	Jan	2022	Applied Analysis group seminar at Max Planck Institute, Leipzig (virtual).	
	Dec	2021	PDE seminar at Indiana University.	

Conference Talks	Upcoming2024		The 2nd joint AMS-Umi Meeting, Special Session: "Dy- namics of compressible Euler equations and complex flows", Palermo, Italy.
	May	2024	AMS Western Sectional Meeting Special session: "Mathe- matical Fluid Dynamics", San Francisco State University, San Francisco.
	Dec	2023	Hot Topics: Recent Progress in Deterministic and Stochastic Fluid-Structure Interaction, SLMath, Berkeley.
	Aug	2023	The 10th ICIAM, minisymposium on Theory, numerics and data driven methods for fluids, Tokyo, Japan.
	June	2023	The 13th AIMS Conference Series on Dynamical Systems and Differential Equations, Special session: "Phase field models and real world applications", University of North Carolina.
	May	2023	Recent Advances in Mathematical Fluid dynamics, Duke University (Contributed talk).
	May	2023	AMS Spring Western Sectional Meeting Special Session: "Nonlinear PDEs in Fluid Dynamics I", California State University.
	April	2023	AMS Spring Eastern Virtual Sectional Meeting Special Session: "Recent Advances in Infinite-Dimensional Stochastic Analysis, II".
	Oct	2022	The 7th Annual Meeting of SIAM Central States Section, Okhlahoma State University.
	June	2020	The 13th AIMS Conference on Dynamical Systems, Differ- ential Equations and Applications, Special Session: "Recent advances in fluid dynamics and nonlinear dynamics", Atlanta (canceled).
	Feb	2022	The Shanks Workshop on Mathematical Aspects of Fluid Dy- namics Conference, Vanderbilt University (Contributed talk).
	Nov	2019	AMS Sectional Meeting Special Session "Fluid Dynamics: From Theory to Numerics", UC Riverside.
ORGANIZATION	Fall	2023	UC Berkeley-Lawrence Berkeley National Lab Applied math seminar (co-organizer).
	Fall	2023	Applied and numerical PDE student seminar, UC Berkeley (co-organizer).
	June	2023	Special session at the 13th AIMS Conference Series on Dy- namical Systems and Differential Equations, University of North Carolina (co-organizer).
	Spring	2020	PDE graduate student seminar, IU (co-organizer).

SUMMER SCHOOLS	Sept	2020	Summer School on Mathematical Hydrodynamics, The Field's Institute for research in mathematical sciences. ( <i>Online</i> )	
	July	2020	MSRI Summer school: Introduction to water waves. (Online)	
	May	2019	NSF/CBMS Conference: The Cahn-Hilliard Equation: Recent Advances and Applications, Tennessee.	
	Summer	2014	REU with Professor Anilesh Mohari at the Institute of Mathematical Sciences, Chennai, India.	
Awards and	2023	SIAM	travel grant for the 10th ICIAM conference (declined).	
GRANTS	2022	IUB- Math	Bhatnagar Award for Outstanding Thesis in Applied ematics.	
	2021-22	IUB-	College of Arts and Science Dissertation Fellowship.	
	2021	IUB-	Muriel Adams Stahl Award for research and summer support.	
	2020	IUB-	Hazel King Thompson Fellowship for dissertation research.	
	2020	IUB-	Glenn Schober Memorial Travel Fellowship.	
	2019	IUB-	Provost's Travel Award for Women in Science.	
	2019	AMS'	s Graduate Student Travel Grant.	
	2017-20	Sumn	ner support under the NSF grant DMS-1510249.	
	2017	IUB-	College of Arts and Sciences Fellowship.	
Service and Outreach	2023	Speaker Alto, C.	at the 8th grade Math Club at the Girls' Middle School, Palo A.	
	2023	Speaker Matter'	at the Basic Sciences' 'Light the way' event 'Mathematics that at UC Berkeley.	
	2022	Member	of the math GenEd Instruction committee workshop, IUB.	
	2018	Speaker at the Advance College Project (ACP) Professional Development Seminar, IUB.		
	2019-	Reviewer of journal articles for Nonlinearity, JDE, MMAS, ZAMM, J.		
	present Nonlinear science.			
Teaching and mentoring	Graduat	ce cours	es taught at Indiana University	
Experience	Spring	2022	M642- A graduate topics course on numerical methods and control theory problems in stochastic PDE.	
	Spring	2021	A643- A graduate topics course on PDEs driven by a Levy noise.	

## At UC Berkeley

Spring	2024	M104- Introduction to Real Analysis (2 sections)
Fall	2023	M185- Introduction to Complex Analysis
Spring	2023	M104- Introduction to Real Analysis (2 sections)
Fall	2022	M185- Introduction to Complex Analysis

## At Indiana University

	Fall	2020	D117- Introduction to Finite Mathematics -II (Online).
	Spring	2020	D117- Introduction to Finite Mathematics -II.
	Fall	2019	M118- Finite Mathematics.
	Spring	2019	D116- Introduction to Finite Mathematics I.
	Fall	2018	M027- Pre-Calculus with Trigonometry.
	Spring	2018	D117- Introduction to Finite Mathematics -II.
	Fall	2017	M018- Basic Algebra for Finite Mathematics.
	Fall	2016	M025- Pre-Calculus.
Technical Experience	Spring	2021	Participant of the Internship Network in the Mathematical Sciences (INMAS) data science bootcamp.
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RELEVANT Python, C. SKILLS