TEXAS STATE VITA

I. Academic/Professional Background

A. Name and Title

Name: Dr. Jaroslaw S. Jaracz Title: Senior Lecturer

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PHD	2019	State Univ of NY at Stony Brook	Mathematics	
BA	2013	New York University	Biochemistry and Mathematics	

C. University Experience

Position	*University*	*Comments*	*Dates*
Lecturer, Mathematics	Texas State University. San Marcos, TX, United States		August 20, 2019 - Present
Teaching Assistant, Mathematics	Stony Brook University. Stony Brook, NY, United States		August 20, 2013 - August 16, 2019

E. Other Professional Credentials (licensure, certification, etc.)

Online Teaching Certificate. (July 22, 2020 - Present).
Jaracz Jaroslaw Completion Certificate_TOTS_2020 (1)-1.pdf

II. TEACHING

B. Courses Taught:

Texas State University:

MATH 1319 - MATH BUS & ECO I

MATH 1319 - MATH FOR BUSINESS & ECON I

MATH 1329 - MATH BUS & ECO II

MATH 2321 - CALCULUS FOR LIFE SCIENCES I

MATH 2471 - CALCULUS I

MATH 2472 - CALCULUS II

MATH 3323 - DIFFEREN EQUAT

MATH 3323 - DIFFERENTIAL EQUATIONS

MATH 3380 - ANALYSIS I

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

2. Articles:

a. Refereed Journal Articles:

Jaracz, J. S. (2023). Nonexistence of solutions to the coupled generalized Jang equation/zero divergence system. *Classical and Quantum Gravity*, *40*, 195013. https://doi.org/10.1088/1361-6382/acf17f

Jaracz, J. S. (2022). Spherically symmetric counter examples to the Penrose inequality and the positive mass theorem under the assumption of the weak energy condition. *Classical and Quantum Gravity*, *40*, 025005.

Jaracz, J. S., & Lee, Y. J. (2022). Existence and Stability of Global Solutions to a regularized Oldroyd-B Model in its Vorticity Formulation. *Journal of Differential Equations*, *327*, 259–321.
2111.12030-1.pdf

Jaracz, J. S. (2020). The Penrose inequality and positive mass theorem with charge for manifolds with asymptotically cylindrical ends. *Annales Henri Poincaré*, *21*, 2581–2609. Retrieved from https://link.springer.com/article/10.1007/s00023-020-00927-z
https://link.springer.com/article/10.1007/s00023-020-00927-z
Jaracz-Charged Penrose for manifolds with AC ends-1.pdf

Jaracz, J. S., & Khuri, M. A. (2018). Bekenstein bounds, Penrose inequalities, and black hole formation. *Physical Review D*, *97*(12). https://doi.org/10.1103/PhysRevD.97.124026https://arxiv.org/abs/1802.04438
1802.04438-1.pdf

B. Works Not in Print:

2. Invited Talks, Lectures, and Presentations:

Jaracz, J. S., Texas Differential Equations Conference, "Counterexamples to the Penrose Inequality and Positive Mass Theorem Under the Assumption of the Weak Energy Condition," Texas State University, San Marcos, United States. (March 25, 2023).

Jaracz, J. S., Differential Equations and Applied Mathematics Seminar, "Counterexamples to the Penrose Inequality and Positive Mass Theorem Under the Assumption of the Weak Energy Condition," Texas State University, San Marcos, TX, United States. (February 24, 2023).

Jaracz, J. S., NMDSE Seminar, "Existance and Uniqueness of Solutions to a Regularized Oldroyd-B model," Texas State University. (April 4, 2022).

D. Scholarly / Creative Fellowships, Awards, Honors:

Award / Honor Recipient: Perley Lenwood Thorne Medal in Mathematics, New York University.
May 1, 2013

Additional Comments: Award given for outstanding scholarship in mathematics.

IV. SERVICE

A. Institutional

1. University:

University Mentor, H-LSAMP Scholars Program. (January 10, 2022 - May 10, 2023).

Poster Judge, WISE (Women In Science and Engineering) Conference. (March 6, 2020).

Additional Comments: Acted as a judge for the posters presented during the conference.

2. College:

Member, STEM Communities Project. (May 15, 2021 - May 15, 2022).

3. Department/School:

Advertised the mathematics department to potential undergraduates, Bobcat Day. (February 18, 2023 - Present).

Organizer, 1319/1329 Teaching Forum. (May 16, 2022 - Present).

Advertised the mathematics department to potential undergraduates, Bobcat Day. (November 4, 2023).

Advertised the mathematics department to potential undergraduates, Bobcat Day. (November 12, 2022).

Additional Comments: Advertised mathematics and applied mathematics majors to prospective undergraduate students.

Participant, Annual Grad Expo 2022. (November 4, 2022).

Additional Comments: Presented a poster at the expo

Organizer, Differential Equations Teaching Forum. (May 10, 2020 - May 15, 2022).

Advertised the mathematics department to potential undergraduates, Bobcat Day. (February 22, 2020).

Additional Comments: Advertised mathematics and applied mathematics majors to prospective undergraduate students.

D. Organization Memberships:

American Mathematical Society (AMS). (May 3, 2016 - Present).

Phi Beta Kappa Society (PBK). (May 1, 2013 - Present).