

Farhad Yusef-Zadeh zadeh@northwestern.edu 847-491-8147

SUNY at Stony Brook, Physics and Math, B.A., 1977

City University in New York, Hunter College, Physics, 1980

Columbia University, Astronomy, Ph.D., 1986

National Research Council Resident Research Associate, NASA/GSFC, 1987 – 1988

Assistant Professor of Physics and Astronomy, Northwestern University, 1989 – 1995

Professor of Physics and Astronomy, Northwestern University, since 1996

Doctoral Advisers

M. Morris (UCLA) and K. Prendergast (Columbia University)

Postdoctoral Adviser

M. Hollis (NASA, Goddard Space Flight Center)

Research Advisor and Sponsor:

H. Bushouse (Lindheimer fellow), E. Chambers (postdoc), D. Haggard (CIERA fellow), C. Heinke (Lindheimer fellow), D. Roberts (postdoc), D. Wang (Lindheimer fellow) and M. Wardle (Lindheimer fellow)

Northwestern Graduate Students Advised:

Robert Lentz (BA, 1991), Payman Parastaran (MS, 1996), Brian Robinson (MS, 1996), Casey Law (PhD, 2007), Jack Hewitt (PhD, 2009), Matthiew Rickert (PhD, 2017), Marc Royster (PhD, 2019), Joe Michail (PhD, 2024)

Northwestern Undergraduate Students Advised:

Lyla Casement, Mark Pauli, William Ko, Daniel Choate, Brian Johnson, Courtney Lawhn, John Hewitt, Sharon Levine, Robert Lentz, J.-Y. Lee, David Joffy, David Caratelli, Ryan Jasinski, Irsal Alsanea, Rebecca Diesing, Scott Phelan and Janet Wang

Professional Interests

Cosmic Rays and Magnetic Fields in the Nucleus of the Galaxy

The Galactic Center Supermassive Black Hole and its Environment

Star Formation in Extreme Conditions

Interacting Supernova Remnants

I. Scholarship

Summary

Trustee of the Adler Planetarium, 1999-2007

Fellow of the American Physical Society, since 2011

Fellow of the American Association for the Advancement of Science, since 2019

Member of the multi-wavelength group of the Event Horizon Telescope, 2019-2026

Associate member, Observatoire de Paris, LUX, CNRS, PSL University, Sorbonne University, 75014, Paris, France since 2026

451 publications, 190 refereed articles

h-index 57, total citations 10604

47 publications in the Astrophysical Journal *Letters* (1st or 2nd author for 40 articles)

7 publications in *Nature* magazine (1st or 2nd author for 3 articles)

Two review publications in *Science* magazine (1st or 2nd author for both articles)

National Radio Astronomy image Contest Award¹

Access Ability Award from Students with Disabilities, May 2008

Organized *Radio Astronomy Lecture Series*, pedagogical research lectures since 2015

Recent Publications

• **Yusef-Zadeh, F.** and 7 colleagues 2026. Simultaneous JWST, NuSTAR, and VLA Monitoring of Sgr A*: A Unified Picture of the Variable IR, X-ray and Radio Emission/ 2026ApJ..1000L..41Y2026/04

• **Yusef-Zadeh, F.** and 5 colleagues 2025. Nonstop Variability of Sgr A* Using JWST at 2.1 and 4.8 μm Wavelengths: Evidence for Distinct Populations of Faint and Bright Variable Emission 2025ApJ...980L..35Y

• R. Arendt, **Yusef-Zadeh, F.** and I. Heywood 2025. A Catalog of Filaments in the Central Molecular Zone 2025ApJS..281...33A

• Bower, Geoffrey C.; Deller, Adam T.; Demorest, Paul B.; Dexter, Jason; Brunthaler, Andreas; Desvignes, Gregory; Eatough, Ralph P.; Falcke, Heino; Goddi, Ciriaco; Kramer, Michael; Bower, Geoffrey C.; Deller, Adam T.; Demorest, Paul B.; Dexter, Jason; Brunthaler, Andreas; Desvignes, Gregory; Eatough, Ralph P.; Falcke, Heino; Goddi, Ciriaco; Kramer, Michael and **Yusef-Zadeh, F.** 2025ApJ...988..168B

• **Yusef-Zadeh, F.**; Arendt, R. G.; Wardle, M.; Heywood, I.; Cotton, W.; Camilo, F. show less Erratum: "Statistical Properties of the Population of the Galactic Center Filaments: The Spectral Index and Equipartition Magnetic Field" (2022, ApJ, 925, L18) 2025ApJ...994L..58Y

¹<https://public.nrao.edu/gallery/stars-forming-in-our-galaxys-heart>

• Heinke, C. O.; Nakajima, M.; Kudo, Y.; Negoro, H.; Bahramian, A.; Miller-Jones, J.; Degenaar, N.; Maccarone, T.; **Yusef-Zadeh, F.**; Sivakoff, G. R.; Ridder, M Swift/XRT position of MAXI J1744-294 near Sgr A* 2025ATel17010.....1H