

Mahmoud Parvizi

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Department of Physics and Astronomy
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EDUCATION

- May 2019 **Vanderbilt University** Nashville, TN
Ph.D. in physics
Advisor: Robert J. Scherrer
- May 2014 **Austin Peay State University** Clarksville, TN
B.S. in physics, magna cum laude
Minor in astronomy
- Dec. 2001 **University of Michigan-Flint** Flint, MI
M.B.A. - concentration in finance
- May 1998 **University of Michigan-Flint** Flint, MI
B.B.A. - concentration in finance, high distinction

POSITIONS HELD

- Research Consultant, Institute for Cyber-Enabled Research, Michigan State University, 2020 – Present
- Research Specialist, Department of Physics and Astronomy, Michigan State University, 2020 – Present
- Postdoctoral Research Associate, Department of Physics and Astronomy, Michigan State University, 2019 – 2020
- Graduate Research Assistant, Department of Physics and Astronomy, Vanderbilt University, 2014 – 2019
- Graduate Teaching Assistant, Department of Physics and Astronomy, Vanderbilt University, 2018 – 2019
- Graduate Teaching Assistant, Fisk University – Vanderbilt University Master's-to-Ph.D. Bridge Program, 2017 – 2018
- Graduate Teaching Assistant, Department of Physics and Astronomy, Vanderbilt University, 2015 – 2016
- Undergraduate Research Assistant, Department of Physics and Astronomy, Vanderbilt University, 2013 – 2014
- Undergraduate Research Assistant, Department of Physics and Astronomy, Austin Peay State University, 2012 – 2013
- Special Forces Company Operations Sergeant, 5th Special Forces Group (Airborne), United States Army, 2009 – 2010
- Military Liaison Element, United States Special Operations Command, 2008 – 2009
- Special Forces Medical Sergeant, 5th Special Forces Group (Airborne), United States Army, 2005 – 2008
- Infantryman, John F. Kennedy Special Warfare Center and School, United States Army, 2002 – 2005
- General Manager, Parvizi Clothing Company, Inc., Flint, MI, 1998 – 2002

AWARDS

- Cloud-Computing Fellowship, Institute for Cyber-Enabled Research - Michigan State University, 2019
- Directorate for Mathematics and Physical Sciences – Graduate Research Supplement for Veterans, National Science Foundation, 2016
- Robert F. Sears Award for Excellence in Science, Austin Peay State University, 2014
- Tennessee Space Grant Scholarship, Tennessee Space Consortium, 2013
- The Defense Meritorious Service Medal, Secretary of Defense, 2009
- The Bronze Star Medal, President of the United States, 2008
- The Army Commendation Medal, Secretary of the Army, 2007
- The Army Commendation Medal, Secretary of the Army, 2006

PROFESSIONAL ASSOCIATIONS

- American Physical Society
- American Astronomical Society
- Sigma Xi Scientific Research Society
- Sigma Pi Sigma National Physics Honor Society
- Pi Mu Epsilon National Mathematics Honor Society
- Society of Physics Students

PUBLICATIONS

- **Mahmoud Parvizi**, “Finite time and density effects on interacting quantum fields in cosmological spacetimes”, 2019, Dissertation, [etd.library.vanderbilt: parvizi.pdf]
- Eric Morganson, Paul J. Green, **Mahmoud Parvizi**, et al., “The Time Domain Spectroscopic Survey: Variable Object Selection and Anticipated Results”, 2015, ApJ 806, 244, [arXiv:1505.00760]
- Kyle E. Conroy, Andrej Prsa, **Mahmoud Parvizi**, et al., “Kepler Eclipsing Binary Stars. V. Identification of 31 Candidate Eclipsing Binaries in the K2 Engineering Dataset”, 2014, PASP 126, 944, [arXiv:1407.3780]
- **Mahmoud Parvizi**, Martin Paegert, and Keivan G. Stassun “The EB Factory Project II. Validation with the Kepler Field in Preparation for K2 and TESS”, 2014, AJ 148, 125, [arXiv:1409.3237]

PRESENTATIONS

- **Mahmoud Parvizi**, “Cosmological Observables via Non-equilibrium Quantum Dynamics in Non-stationary Spacetimes” High Energy Theory, Relativity, and Cosmology Seminar, Syracuse University, Syracuse, NY, October 2018 (talk)
- **Mahmoud Parvizi**, “See One, Do One, Teach One: Graduate Physics Preparation and Conditioning via Adult Learning Principles” Physics Colloquium, Austin Peay State University, Clarksville, TN, October 2018 (talk)
- **Mahmoud Parvizi**, “Cosmological Observables via Non-equilibrium Quantum Dynamics in Non-stationary Spacetimes” Particle/Astrophysics and CERCA Seminar, Case Western Reserve University, Cleveland, OH, September 2018 (talk)

- **Mahmoud Parvizi**, “See One, Do One, Teach One: Graduate Physics Preparation and Conditioning via Adult Learning Principles” Physics Colloquium, Vanderbilt University, Nashville, TN, August 2018 (talk)
- **Mahmoud Parvizi**, “Non-Equilibrium Quantum Processes in Curved Spacetimes,” High Energy Theory Journal Club, Michigan State University, East Lansing, MI, May 2017 (talk)
- **Mahmoud Parvizi**, “Probing a New Approach to Relativistic Shear with Viscous Horizons,” High Energy Theory and Cosmology Seminar, Vanderbilt University, Nashville, TN, December 2015 (talk)
- **Mahmoud Parvizi**, “Searching Kepler Variable Stars with the Eclipsing Binary Factory II Pipeline”, 223rd Annual American Astronomical Society Meeting, Washington D.C., January 2014 (talk)
- **Mahmoud Parvizi**, “Plasma Spectroscopy of Ne X, IX, and VIII”, 8th Annual Research and Creativity Forum, Austin Peay State University, Clarksville, TN, April 2013 (talk)