

Benjamin L. Davis, Ph.D.

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SUMMARY

I am a research scientist with formal training in astrophysics and music, including expertise in image processing, regression analysis, machine learning, causal discovery/inference, and communication.

EDUCATION

- 2015 Ph.D. (Space & Planetary Sciences) at the **University of Arkansas**
Thesis: *Logarithmic Spiral Arm Pitch Angle of Spiral Galaxies: Measurement and Relationship to Galactic Structure and Nuclear Supermassive Black Hole Mass*
- 2008 B.S. (Physics), B.S. (Mathematics), & Minor (Music) at **Pittsburg State University**

WORK EXPERIENCE

- New York University Abu Dhabi** Sep 2020 – Aug 2025
Center for Astrophysics and Space Science – Fellow, Research Associate
- Swinburne University of Technology** Aug 2016 – Jul 2020
Centre for Astrophysics & Supercomputing – Postdoctoral Fellow
- Arkansas Tech University** Aug 2015 – May 2016
Department of Physical Sciences – Visiting Assistant Professor of Physics
- University of Arkansas** Aug 2015 – Dec 2015
Department of Physics – Visiting Assistant Professor of Physics

PUBLICATIONS

 ORCID |  Google Scholar |  NASA ADS |  Scopus |  Web of Science |  ResearchGate

★ Media Highlight – *NASA Telescopes Capture Stellar Delivery Service for Black Hole*    

TECHNICAL PROFICIENCIES

Programming Languages

C++ • Fortran • HTML • IDL • L^AT_EX • Mathematica • MATLAB (image processing, signal processing, optimization) • Python (pandas, scikit-learn, Seaborn, SciPy, NumPy, PySR) • R • Supermongo

Software

Adobe Creative Cloud • DS9 • Gimp • IRAF • Microsoft Office Suite • PC/Mac/Unix/Linux OS • Git

For my unabridged curriculum vitae, visit <https://bendavis007.github.io/PDFs/CV.pdf> or scan the QR code.

