Andrew Jones

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EDUCATION

Kennesaw State University - Kennesaw, Georgia
B.S. in Physics, August 2015 - May 2018.
Emphasis: General Physics

Boise State University - Boise, Idaho
Ph.D. in Computing, August 2018 - Present.
Emphasis: Computational Science and Engineering

COMPUTER SKILLS

Programming Languages: Python, C, C++, FORTRAN, Bash, Git
Operating Systems: Linux (Ubuntu, CentOS, Redhat, ElementaryOS), Windows

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PROFESSIONAL EXPERIENCE

Kennesaw State University - Student Assistant

- February 2018 - May 2018
- Physics Department.
- Physics I and II (Mechanics and Electromagnetism) .

Boise State University - Graduate Teaching Assistant

- August 2018 - August 2019
- Computer Science Department
- Java II

Boise State University - Graduate Research Assistant

- September 2019 - Present
- Mathematics Department
- Numerical Partial Differential Equations (PDEs).
- Software design and development.
- Data visualization.

Sandia National Laboratory (New Mexico) - Graduate Research Intern

- May 2020 - Present
- Computer Science Research Institute (CSRI) Computational Science Group (1446)
- High performance computing software design and development.

CONFERENCES

Posters

- "Alpha Radiation Detector Development and Testing Under Various Conditions", National Council Undergraduate Research (NCUR) 2017, 4/7/2017. Kennesaw State University Symposium of Student Scholars, 4/20/2017.
- "Towards a Hybrid RBF-SEM Framework for Bulk-Surface PDEs", Biennial Society of Industrial Applied Mathematics Pacific NorthWest Section Meeting 2019,10/20/2019.
- "Meshfree Multilevel Methods for Surface PDEs", Society of Industrial Applied Mathematics Computational Science and Engineering (CSE) Conference 2021, 03/02/2021.

Talks

- "The strange and but yet unexplained behavior of the most massive black holes in the Universe", Georgia Regional Astronomers Meeting (GRAM), 10/28/2017.
- "Preliminary CFD study of Pebble Size and its Effect on Heat Transfer in a Pebble Bed Reactor", American Physical Society Division of Fluid Dynamics (APS DFD),11/20/2017.

PUBLICATIONS

- Andrew M. Jones and Peter. A. Bosler. Radial Basis Functions in the Tangent Plane: Meshfree Approximation Methods for the Sphere. Computer Science Research Institute Summer Proceedings 2020, pages 57–67.
- David Garofalo, Damian J. Christian, Andrew M. Jones, The sub-Eddington boundary for the quasar mass-luminosity plane: A theoretical perspective, Universe, (2019) **articlelink**
- David Garofalo, Chandra B. Singh, Dylan T. Walsh, Damian J. Christian, Andrew M. Jones, Alexa Zack, Brandt Webster, Matthew I. Kim, The redshift distribution of BL Lacs and FSRQs, Research in Astronomy and Astrophysics, (2018) **articlelink**

REFERENCES

Grady Wright Ph.D.

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Kevin Stokes Ph.D.

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Eduardo Farfan Ph.D.

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