

Adam Bruce Shinn

CONTACT INFORMATION

email: adam@kwhanalytics.com

github: github.com/abshinn

blog: abshinn.github.io

in: linkedin.com/in/abshinn

SUMMARY

Data scientist by way of the space sciences with experience in scientific data analysis and visualization. I enjoy the end-to-end process of solving difficult problems and delivering data-driven insights.

RELEVANT EXPERIENCE

Data Scientist

December 2014 - *present*

kWh Analytics, San Francisco, California

Data Science Fellow

May 2014 - September 2014

Zipfian Academy, San Francisco, California

- Capstone project *Mind the Supply Gap:*

Recommending school districts that have the most potential to be active on DonorsChoose.org
abshinn.github.io/mind-the-gap

Consultant Software Developer

April 2012 - November 2012

Laboratory for Atmospheric and Space Physics, University of Colorado at Boulder

Magnetospheres of Outer Planets Group, Advisor: Fran Bagenal

- Developed a graphical user interface to an empirical model to help scientists compare real data to empirical data. (<http://lasp.colorado.edu/mop/resources/code/#toruswidget>)

Scientific Software Developer

September 2010 - October 2011

Southwest Research Institute, Boulder, Colorado

Department of Space Studies, Advisor: Andrew Steffl

- Calibrated, analyzed, and visualized data from various NASA spacecraft including Cassini, New Horizons, Hubble Space Telescope, and STEREO.

Research Assistant / Scientific Programmer

April 2009 - September 2010

Laboratory for Atmospheric and Space Physics, University of Colorado at Boulder

Magnetospheres of Outer Planets Group, Advisor: Fran Bagenal

- Assisted research group in code development, model optimization, scientific data visualization, and web development.

EDUCATION

Professional Development

April 2013 - May 2014

- Machine Learning, *Stanford University (Coursera)*
- Computing for Data Analysis, *Johns Hopkins University (Coursera)*
- Programming with R, *U.C. Berkeley Extension*
- Python Programming, *U.C. Berkeley Extension*

University of Colorado at Boulder, Boulder, Colorado

August 2007 - May 2010

- B.A., Astrophysics
- Machine Shop Certification

COMPUTATIONAL SKILLSET

- Scripting and Analysis {Bash, Python, R, Octave/Matlab, IDL}
- Python {NumPy, Matplotlib, Pandas, Scikit-Learn, Jupyter}
- JavaScript {d3.js, crossfilter}
- Data at Scale {PostgreSQL, MongoDB, Spark}
- Adobe Products {Acrobat Professional, Illustrator}
- Word Processing {L^AT_EX}

PUBLICATIONS	<p>A.J. Steffl, N.J. Cunningham, A.B. Shinn, D.D. Durda, and S.A. Stern (2013), A Search for Vulcanoids with the STEREO Heliospheric Imager, <i>Icarus</i>, 223</p> <p>Steffl, A. J., A. B. Shinn, G. R. Gladstone, J. W. Parker, K. D. Retherford, D. C. Slater, M. H. Versteeg, and S. A. Stern (2012), MeV electrons detected by the Alice UV spectrograph during the <i>New Horizons</i> flyby of Jupiter, <i>J. Geophys. Res.</i>, 117, A10222</p> <p>S.A. Stern, N.J. Cunningham, M.J. Hain, J.R. Spencer, A. Shinn (2012), First Ultraviolet Reflectance Spectra Of Pluto and Charon by the HST Cosmic Origins Spectrograph: Detection of Absorption Feature and Evidence for Temporal Change, <i>The Astronomical Journal</i>, 143</p>
CONFERENCE PRESENTATIONS	<p>Quasi-periodic electron bursts in the Jovian magnetosphere, A.J. Steffl and A.B. Shinn, American Geophysical Union, <i>December 2012</i></p> <p>Azimuthal Variations in the Io Plasma Torus and the Role of Hot Electrons, A.J. Steffl and A.B. Shinn, Division for Planetary Science, <i>October 2012</i></p> <p>The Io Plasma Torus During the Cassini Flyby of Jupiter, A.J. Steffl and A.B. Shinn, American Geophysical Union, <i>December 2011</i></p> <p>A Search for Vulcanoids Using STEREO Heliospheric Imager Data, A.J. Steffl, N.J. Cunningham, A.B. Shinn, D.D. Durda, S.A. Stern, European Planetary Science Congress, <i>October 2011</i></p> <p>Energetic electrons in the Jovian Magnetosphere detected by the Alice UV spectrograph aboard New Horizons, A.J. Steffl, A.B. Shinn, et al., Magnetospheres of Outer Planets, <i>August 2011</i></p> <p>Anticipating Juno, A.B. Shinn and F. Bagenal, American Geophysical Union, <i>December 2010</i></p>