Reza Monadi

Contact

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Education

Ph.D. University of California, Riverside, California, USA, 2017-present.

M.Sc. Shahid Beheshti University, Tehran, Iran, 2010-2013.

B.Sc. University of Guilan, Rasht, Iran, 2005-2009.

Research Experience

PhD More Precise Selection of Extremely Red Quasars with Machine Learning,

Project-A Advisor: Fredrick Hamann,

Co-advisor: Simeon Bird.

PhD Studying Civ in SDSS with Machine Learning,

Project-B Advisor: Simeon Bird.

M.Sc Project Statistical Study of Glitches in Radio Pulsars,

Advisor: S. M. S. Movahed.

B.Sc Project **Designing a Solar Positiong System**,

Advisor: H.R. Mashayekhi.

Skills

O.S. Linux, Macintach, Microsoft Windows.

Software Libre Office, LaTex, Visual Studio,

Programming Python, Fortran, Matlab.

Libraries Scipy, Matplotlib, Sci-kit learn, PyClustering.

Astronomical Cloudy, PSRCHIVE.

Packages

Machine Clustering, Clasification, PCA, SVM....

Learning

Statistics Sample comparison, Correlation, Optimization,

Publications

- A Gaussian Model for Anisotropic Strange Quark Stars: H. Panahi, R. Monadi and I. Eghdamis, Chinese Physics Letters 33 (7), 072601, 2016,
- Statistical Analysis of I Stokes Parameter of Millisecond Pulsars, arXiv:1604.00372

Presentation

Poster Presice Seclection of Extremely Red Quasars, Keck Science Meeting, 2019, UCLA.

Data-Science Courses

- Statistical Astronomy, Grade: A
- o Computational Physics, Grade: 19/20
- o Physics of Complex Systems, Grade: 18/20

Data-Science Workshop

o Optical Data Reduction Workshop, IPM, Tehran, Iran, 2012

Outreach Activities

Cosmic **Helping in organization**, *UCR*, 2019.

Thursdays

Apollo Event Collaboration in hands-on activities, UCR, 2019.

MESA 2018 Scientific Judge, UCR, 2018, High school student competitio.

Astronomy Scientific Organizer, Thaqib Astronomical Association, Rasht, Iran, 2017.

Sceince Fair

Teaching Experience

Lab TA Physics 40C, UCR, Fall of 2017.

Lab TA Physics 2LB, UCR, Winter of 2017 and 2018.

Lab TA Basic Circuits, University of Guilan, 2015-2017.

Teacher Introductory Astronomy, Mirza Kouchak High School, 2015-2017.

Leadership Experiences

Co-advisor Masters thesis in computational physics,

University of Guilan, Iran, Rasht.

2014-2016

Advisor Astronomical projects for high school students,

Mirza Kouchak High School, Iran, Rasht.

2016-2017

Honors and Awards

- o Dean's fellow award, UCR, 2017-present
- Top 2% in PhDD. program applicants for physics in Iran, 2013
- \circ Top 1% in M.Sc. program applicants for physics in Iran, 2010

References

• Frederick Hamann: fhamann@ucr.edu

• Simeon Bird: sbird@ucr.edu

• Seyed Mohamad Sadegh Movahed: s.m.movahed@ipm.ir