Reza Katebi

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Education

PhD. in Physics, Ohio University, Athens, Ohio, USA — Sep 2014 - present
Supervisor: Prof. Ryan Chornock
Research: Time domain astronomy, acquire and process gigabytes of data from multiple telescopes (MDM, Swift, Magellan) using different instruments and large sky surveys (PS1, SDSS and COSMOS)
Processing: R, Python, IDL, IRAF, X11, bash, Cleaning/Parsing data, 2D image processing, 1D/2D spectroscopic arrays, time series data analysis
Analytics: Sampling, statistics, interpolation/extrapolation, binning/clipping, multi functional fitting, noise reduction, brightness profiles, Chi-squared fitting, Gaussian filters

M.Sc. in Physics, California State University at Fullerton, Fullerton, CA, USA — Aug 2013 - Aug 2014
GPA: **3.9**, *Supervisor:* Prof. Geoffrey Lovelace
Research: Numerical simulation of highly spinning binary black holes and analyzing hundreds of gigabytes data generated from these simulations
Analytics: Bash automation, scripting, Xmgrace, Paraview, python, C, Mathematica, statistics, noise reduction, horizon finding, numerical solutions of PDE/ODE

B.Sc. in Physics, Yasuj University, Yasuj, Iran — Sep 2008 - Jun 2011
GPA: **3.8/4.0**, Magna cum laude, *Supervisor:* Prof. Hossein Hendi

Field of interest

Machine & Deep learning • Game Theory • Data Analysis • High Performance Computing • Astrophysics • Big data

Programming & Computer Skills

- *Operating System*: Mac OS X, MS Windows & Linux
- *Software*: LaTeX, Paraview, Mathematica, Maple & MS Office
- *Programming*: Python, R, scikit-learn, Tensorflow, IDL & Fortran

Honors and awards

Second place of outstanding presentation, Ohio University Student Expo — 2017
Invited speaker at 11th CNAAM conference, Rhodes, Greece — 2013
Ranked 1st as distinguished researcher among all undergraduate students, Yasuj University — 2011

Selected Publications

Lovelace, G., Scheel, M. A., Owen, R., Giesler, M., Katebi, R., Szilagyi, B.,Chu, T., Demos, N., Hemberger, D.A., Kidder, L.E., and Pfeiffer, H.P. (2015). Nearly extremal apparent horizons in simulations of merging black holes. *Classical and Quantum Gravity, 32*(6), 065007.
Corda, C., Hendi, S. H., Katebi, R., and Schmidt, N. O. (2013). Effective state, Hawking radiation and quasi-normal modes for Kerr black holes. *Journal of High Energy Physics, 2013*(6), 8.

Teaching Experience

TA for Physics 2001, Undergraduate course, Ohio University — 2014-2016
Instructor for Mechanics Physics lab, Undergraduate course, California State University, Fullerton. — 2013-2014
Instructor for Mechanics Physics lab, Undergraduate course, University of Massachusetts, Dartmouth — 2012-2013

Fun Facts

Black Belt in Taekwondo and Kyokushin Kai Karate, enjoy playing chess and piano

References

Available upon request

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