

# Somayeh Khakpash

## Curriculum Vitae

### RESEARCH INTERESTS

**Transiting Exoplanets**  
**Microlensing**  
**Stellar Astrophysics**

### EDUCATION

- FEB 2017 **Ph.D. in Physics**  
-PRESENT LEHIGH UNIVERSITY  
*Adviser: Professor Joshua Pepper*  
GPA: 3.81/4.00
- AUG 2015 **MSc. in Physics**  
-DEC 2016 LEHIGH UNIVERSITY  
*Adviser: Professor Joshua Pepper*  
GPA: 3.76/4.00
- SEP 2010 **B.Sc. in Physics**  
-FEB 2015 SHARIF UNIVERSITY  
TEHRAN, IRAN  
*Average: 15.77/20.00*  
*(of 130 Credits)*  
*Last-year GPA: 4/4.0 (of 30 credits)*

### RESEARCH EXPERIENCE

#### Current project

MARCH 2017 – PRESENT

Recovering planetary parameters by fitting planetary models to simulated WFIRST light curves. Supervised by Professor Joshua Pepper and Dr. Matthew Penny.

#### KELT survey project

JUNE 2016 – PRESENT

Exploring light curves of known M-dwarfs to discover eclipsing M-M binaries and transiting planets. Supervised by Professor Joshua Pepper.

#### B.Sc. Project

JUNE 2014 – JANUARY 2015

Analyzing time series of lensed quasars with calculated time delays to detect a trace of transient small scale structure of Cold Dark Matter. Supervised by Professor Sohrab Rahvar.

### SELECTED COURSES

Spectroscopy and Stellar Atmospheres, Electricity and Magnetism I and II, Astrophysics I, Plasma Physics, An Introduction to Astronomy, Cosmology

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### ATTENDED WORKSHOPS

- AUG 2017 **Sagan Exoplanet Workshop**  
**Microlensing in the Era of WFIRST**  
Pasadena, CA
- JUN 2017 **KELT Workshop V**  
Bethlehem, PA
- AUG 2016 **KELT Workshop IV**  
Nashville, TN
- AUG 2016 **AstroPhilly Conference**  
Philadelphia, PA
- JAN 2014 **National Conference on Cosmology and Gravity**  
*Held by the Physics Society of Iran and Shahid Beheshti University, Tehran, Iran*
- AUG 2013 **Astronomy Summer School**  
*held by the International Occultation Timing Association in MIDDLE EAST (IOTA/ME), Karaj, Iran*

### HONORS AND AWARDS

- Accepted into **LSSTC Data Science Fellowship Program 2017**
- Received Lehigh College of Arts and Sciences Deans Summer Fellowship for summer 2017
- Ranked among the three top marks in the first Astronomy summer school held by the International Occultation Timing Association in MIDDLE EAST (IOTA/ME), Karaj, Iran, August 2013
- Member of National Organization for Development of Exceptional Talents (NODET) in Iran, since 2003

### SKILLS

PROGRAMMING SOFTWARE	Python, C++, MATLAB
PROFESSIONAL SOFTWARE	ImageMagick, MaxIm DL, IRIS, AutoCAD
GENERAL	Bash Scripting, $\text{\LaTeX}$ , Microsoft Office, Microsoft Windows, Macintosh