

Saghar Asadi

PHD CANDIDATE IN ASTROPHYSICS

Kungshamra 32A, lgh 1001, 170 70 Solna, Sweden

☎ (+46) 760 060365

| ✉ asadisaghar@gmail.com

| 🐦 [asadisaghar](#)

| 💻 [asadisaghar](#)

Personal Profile

A creative geek, in search for new challenges to solve! A full-time learner, experienced with **machine learning**, **scientific data analysis** and **visualisation** using **Python** (**matplotlib**, **numpy**, **scipy**, **scikit-learn**, **AstroML** astronomical machine learning package), and **MATLAB**, through numerous projects for both work and play. Familiar with programming in **C**, **Python-Pandas**, and **Cython**.
Fluent in English, and Persian/Farsi (native), basic knowledge in Swedish (learning) and French.

Experience

STOCKHOLM UNIVERSITY – Department of Astronomy

Stockholm, Sweden

PHD STUDENT

Aug. 2012 - Exp. Sep. 2016

- A machine learning approach to time delay estimation – case of gravitationally lensed quasars
Methods: signal processing – time series analysis – gaussian process regression – linear regression methods (LASSO, Ridge)
- Dark matter substructure in the main lens of B1152+199?
Methods: image analysis – analytical modeling – Fourier analysis
- Extragalactic SETI: The Tully-Fisher relation as a probe of Dysonian astroengineering in disk galaxies (published)
Methods: particle simulation
- Primordial star clusters at extreme magnification (published)
Methods: image analysis – analytical modeling

STOCKHOLM UNIVERSITY – Department of Astronomy

Stockholm, Sweden

RESEARCH ASSISTANT

Jun. 2012 - Aug. 2012

- Hunting for dark halo substructure using submilliarcsecond-scale observations of macrolensed radio jets (published)
Methods: image analysis – analytical modeling

Education

STOCKHOLM UNIVERSITY – Department of Astronomy

Stockholm, Sweden

PHD IN ASTRONOMY

Aug. 2012 - Present

- Licentiate thesis: Gravitational lensing and radio interferometry as a probe of the small-scale structure of dark matter

STOCKHOLM UNIVERSITY – Department of Astronomy

Stockholm, Sweden

MSc. IN ASTRONOMY

Sep. 2010 - Jun. 2012

- MSc thesis: Gravitational millilensing as a probe of dark halo substructure

Shahid Beheshti University – Department of Physics

Tehran, Iran

BSc. IN PHYSICS

Sep. 2005 - Jun. 2009

Interests

Board games, dance, science outreach, pedagogics, amateur astronomy, travel