

CYRUS VAFADARI

706 · 587 · 3715 ◇ CYRUSV@ALUM.MIT.EDU
2153 MASSACHUSETTS AVE ◇ CAMBRIDGE MA 02140

EDUCATION

MIT

2012

B.S. Nuclear Science and Engineering, 4.6/5.0

EXPERIENCE

Sookbox, LLC

2011 - 2014

CTO

Cambridge, MA

- Raised \$1.2M
- Designed and wrote back-end in primarily Python (rewritten from PHP)
- Managed team of 5 engineers

Compact Muon Solenoid, LHC, CERN

2010

Research Scientist

Geneva, Switzerland

- Observation of Long-Range, Near-Side Angular Correlations in Proton-Proton Collisions at the LHC
- Predicting probability of piled-up vertices as a function of multiplicity in proton-proton collisions
- Analyzed over a billion collisions and Monte Carlo simulations in a C++ framework
- Used Condor for grid computing
- Discovered evidence of quark-gluon plasma in high-multiplicity p-p collisions, never before observed
- Project publication: doi:10.1007/JHEP09(2010)091

Dept. Molecular Biology, Mass. General Hospital

2009-2013

Research Scientist

Boston, MA

- Third author: "Radiation Resistance of Biological Reagents for In Situ Life Detection"
- SETG, MIT/Harvard group designing and constructing a life-detection device to work on Mars
- Designed and executed experiments simulating cosmic radiation on a flight to Mars
- Irradiated over \$40,000 of reagents with over 10 Gy of radiation from 5 different types of radiation
- Project publication: 10.1089/ast.2012.0869

Barrett Technology

2009

Mechanical Engineering Intern

Watertown, MA

- Implemented revision control system for the company's firmware (SVN)
- Designed in Solidworks and prototyped part for WAM robotic arm

ACTIVITIES

Track and Field

2005-Present

Pole Vault

- MIT Varsity, PR 4.85m (16 ft)
- All-New England (DI, DII, and DIII)
- 2-time New England DIII Champion

Sigma Alpha Epsilon

2009-2013

Founding member, 1st President

- Nation-wide Colony of the Year, 2-time winner of MIT Service Cup, nation-wide Zeal Award winner, MIT Best New Member Program, and MIT Most Improved Chapter
- Served as recruitment chair (60% increase in membership in my officership), managed \$10,000 budget