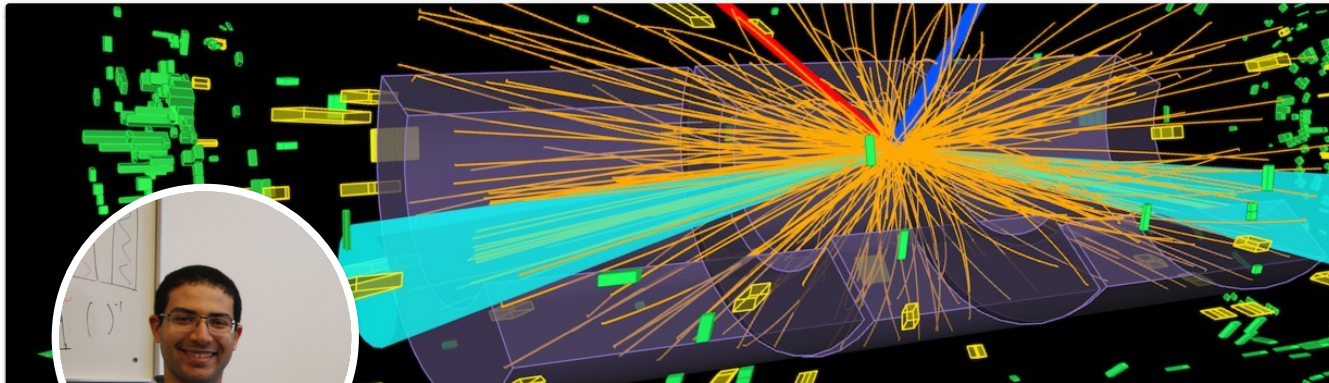


[Python Programming](#) - UCI – 100% Online Courses. Learn the Most In-De



Message

Othmane Rifki, PhD · 1st 



Spectrum Labs



Search



Home



My Network



Jobs

Yu-Ting, you're skilled in Data Analysis



You've both worked at University of Oklahoma

Want to endorse Othmane for Data Analysis?

Skip

Highlights



12 mutual connections

You and Othmane both know Callie Anderson, PhD, Dylan Frizzell PhD, and 10 others

Othmane started a new position
Principal Applied Scientist at Spectrum Labs

[Say congrats](#)[Show more](#) 

About

Principal applied scientist developing ML/AI algorithms to detect toxic behavior affecting online communities. Physics PhD with 8 years experience performing precision measurements and new physics searches at world leading research laboratories such as CERN, Argonne National Laboratory, and DESY. Led vari

Activity

360 followers



After 8 years of searching for dark matter and other exotic forms of matter, and and operating immense particle detectors at some of the world's leading research

Othmane shared this

86 Reactions • 11 Comments

Experience



Principal Applied Scientist

Spectrum Labs · Full-time

Oct 2020 – Present · 1 mo

Boston, Massachusetts, United States

Use contextual AI to recognize and respond to toxic behavior in online communities.



Post-Doctoral Research Fellow

DESY

Oct 2017 – Sep 2020 · 3 yrs

Hamburg Area, Germany

Conducted data analysis and detector development in a highly competitive and international environment:

- Built a pick-and-place system running vision algorithms to achieve less than 10 micron placement accuracy

- Led an international team of 20 researchers to search for rare signals of Dark Matter
- Implemented predictive modeling algorithms and validated them using Monte Carlo simulations and recorded data
- Performed a number of likelihood-based statistical analyses on a petabyte-scale dataset, resulting in several publications

[see less](#)

Doctoral Researcher

CERN

Jul 2015 – Sep 2017 · 2 yrs 3 mos

Geneva Area, Switzerland

Coordinated detector activities at CERN and built software with strict real-time performance requirements:

- Designed real-time data filtering algorithms using multithreading tools to process 160 gigabytes/second
- Supervised a team of 10 scientists to ensure high-quality data recorded by the ATLAS detector at CERN
- Constructed statistical models of backgrounds and signals looking for small deviations from known processes

[see less](#)

Graduate Research Fellow

Argonne National Laboratory

May 2014 – Jun 2015 · 1 yr 2 mos

Lemont

Won the competitive Analysis Support Center fellowship to work with leading scientists on particle physics research:

- Simulated complex particles production and interaction using IBM Mira, one of the world's fastest supercomputers
- Improved the sensitivity of the measurement of a rare physical process by 40% using machine learning techniques

[see less](#)

**Research And Teaching Assistant**

University of Oklahoma

Aug 2012 – May 2014 · 1 yr 10 mos

Oklahoma City, Oklahoma Area

- Trained in Python, C++, bash scripting, LaTeX, distributed computing, statistical modeling
- Taught university-level physics class and discussions for undergraduate and graduate students
- Won department-level and university-level achievement awards

**Undergraduate Research Assistant**

University of Pennsylvania

Apr 2011 – Jun 2012 · 1 yr 3 mos

Greater Philadelphia Area

Assembled and tested prototype electronics that read out the largest camera ever constructed, the three billion pixel CCD camera of the Large Synoptic Survey Telescope (LSST)

[Show fewer experiences](#) ^**Education****University of Oklahoma**

Doctor of Philosophy - PhD, Physics, 4.0 GPA

2012 – 2017

**Drexel University**

Bachelor's degree, Physics, 3.7 GPA

2009 – 2012

Skills & Endorsements**Data Analysis** · 4

Endorsed by **Edward Damon**, who is highly skilled at this



Endorsed by **Razzak Lebbai, PhD** (connection)

**Python** · 2

Endorsed by **Austen Groener**, who is highly skilled at this



Physics · 2



Endorsed by Austen Groener, who is highly skilled at this

Show more

Accomplishments

3

Languages

English · French · German

2

Publications

Probing dark matter with the Higgs boson at CERN · Mining CERN data for signs of supersymr

Interests



CERN Recruitment

15,172 members



Nielsen

787,791 followers



Harvard University

1,481,756 followers



PHYSICSJOBS.COM Physics

16,683 members



Jack Welch

Executive Chairman, The Jack Welch M...
7,259,092 followers



AB Bernstein

27,905 followers

See all



About

Community Guidelines

Privacy & Terms

Sales Solutions

Accessibility

Careers

Ad Choices

Mobile

Talent Solutions

Marketing Solutions

Advertising

Small Business



Questions?

Visit our Help Ce



Manage your a

Go to your Settin

Home

Me

Search

Safety Center

LinkedIn Corporation © 2020



Messaging