

# Alaettin Serhan Mete, Ph.D.

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## Skills and Work Experience

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- 🎯 **Data Analysis:** Conducted scientific data analysis in a highly competitive and international environment
  - Served as a physicist and data analyst for new physics searches at the ATLAS experiment at CERN since 2007
  - Performed a multitude of likelihood-based statistical analyses on a petabyte-scale dataset resulting in publications
  - Developed expertise on optimization techniques, statistical tests, data-driven predictions, Monte Carlo simulation
  - Implemented predictive modeling algorithms, tested and validated them using simulated and recorded data
- 🎯 **Programming:** Developed and maintained monitoring and data analysis software packages in multiple languages
  - Proficient in C++ (10 years), Bash scripting (10 years), Python (5+ years),  $\text{\LaTeX}$  (5+ years)
  - Intermediate knowledge in R (1+ year), (No)SQL (1 year), Java (1 year)
  - Developed, contributed, and maintained large scale projects using subversion software (eg. svn, git)
  - Worked within a distributed big data framework for 7+ years at CERN analyzing terabytes of data
  - Contributed to the development of data quality monitoring software for the ATLAS TDAQ system at CERN
  - Lead resource (e.g. CPU, memory) monitoring and diagnostic projects for the official ATLAS software framework
- 🎯 **Leadership:** Lead a multitude of scientific working groups aiming to achieve time critical goals
  - Managed teams of 5 to over 50 physicists leading to journal publications and public notes meeting strict deadlines
  - Delegated tasks placing emphasis on individual strengths, organized, scheduled and chaired regular meetings
  - Directly co-authored over 5 and contributed to more than 10 peer-reviewed journal publications
  - Reviewed and scrutinized works of colleagues to ensure accurate and high quality results
- 🎯 **Communication:** Excelled in written and verbal communication skills
  - Developed through delivering regular presentations, debating, writing reports, and scientific documentation
  - Represented the ATLAS and CMS collaborations in various prestigious national and international conferences
  - Passionately explained research/data analysis to non-technical audiences as an official CERN visit guide
- 🎯 **Teaching:** Taught and mentored students at various levels, nourishing their independent and critical thinking abilities
  - Served as a teaching assistant for undergraduate physics courses and as a grader for graduate courses
  - Mentored a number of successful Ph.D. students from all over the world
- 🎯 **Languages:** Turkish (Native), English (Full Professional Proficiency), French (Elementary Proficiency)

## Positions Held

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| 🎯 <b>University of California, Irvine</b>  | <b>United States</b> |
| 🎯 <b>European Organization for Nuclear Research (CERN)</b>                                     | <b>Switzerland</b>   |
| <i>Post-Doctoral Research Scholar (2012–2017), Assistant Research Scientist (2017–present)</i> | <i>2012–present</i>  |
| <b>Iowa State University and Brookhaven National Laboratory</b>                                | <b>United States</b> |
| 🎯 <b>European Organization for Nuclear Research (CERN)</b>                                     | <b>Switzerland</b>   |
| <i>Research Assistant</i>  | <i>2008–2012</i>     |
| 🎯 <b>Iowa State University</b>   | <b>United States</b> |
| <i>Teaching Assistant</i>  | <i>2006–2008</i>     |

## Education

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| 🎯 <b>Iowa State University</b>            | <b>United States</b> |
| <i>Ph.D. in High Energy Physics</i>       | <i>2006–2012</i>     |
| 🎯 <b>Middle East Technical University</b> | <b>Turkey</b>        |
| <i>B.Sc. in Physics with High Honors</i>  | <i>2002–2006</i>     |