

Alaettin Serhan Mete, Ph.D.

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Skills and Work Experience

- 🎯 **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), \LaTeX (5+ years)
 - Intermediate knowledge in R (1+ year), (No)SQL (1 year), Java (1 year)
 - Developed, contributed, and maintained large scale projects using revision control 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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| 🎯 University of California, Irvine | United States |
| 🎯 European Organization for Nuclear Research (CERN) | Switzerland |
| <i>Post-Doctoral Research Scholar (2012–2017), Assistant Research Scientist (2017–present)</i> | <i>2012–present</i> |
| Iowa State University and Brookhaven National Laboratory | United States |
| 🎯 European Organization for Nuclear Research (CERN) | Switzerland |
| <i>Research Assistant</i> | <i>2008–2012</i> |
| 🎯 Iowa State University | United States |
| <i>Teaching Assistant</i> | <i>2006–2008</i> |

Education

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