

Alaettin Serhan Mete, Ph.D.

355 Rue Simone Veil, Saint-Genis Pouilly, 01630, France

☎ +41-77-225-9483 • ✉ serhanmete@gmail.com

🌐 www.linkedin.com/in/alaettin-serhan-mete-ph-d-340b9288 • <https://github.com/amete>

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), L^AT_EX (5+ years)
 - Intermediate knowledge in Java (1+ year), SQL (1+ year), R (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
- **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)
<i>Post-Doctoral Research Scholar</i> | Switzerland
2012– |
| Iowa State University and Brookhaven National Laboratory | United States |
| ○ European Organization for Nuclear Research (CERN)
<i>Research Assistant</i> | Switzerland
2008–2012 |
| Iowa State University | United States |
| ○ <i>Teaching Assistant</i> | 2006–2008 |

Education

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