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 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

University of California, Irvine		**United States**
⊘ **European Organization for Nuclear Research (CERN)**		**Switzerland**
Post-Doctoral Research Scholar (2012–2017), Assistant Research Scientist (2017–present)		*2012–present*
Iowa State University and Brookhaven National Laboratory		**United States**
⊘ **European Organization for Nuclear Research (CERN)**		**Switzerland**
Research Assistant		*2008–2012*
⊘ **Iowa State University**		**United States**
Teaching Assistant		*2006–2008*

Education

⊘ **Iowa State University**		**United States**
Ph.D. in High Energy Physics		*2006–2012*
⊘ **Middle East Technical University**		**Turkey**
B.Sc. in Physics with High Honors		*2002–2006*