Alaettin Serhan Mete, Ph.D.

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○ /amete   in /in/asmete

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 optimization 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

⊘ **Argonne National Laboratory**		**United States**
Assistant Computational Scientist		*2019–present*
⊘ **European Organization for Nuclear Research (CERN)**		**Switzerland**
Member of the ATLAS Collaboration		*2007–present*
University of California, Irvine		**United States**
⊘ *Assistant Project Scientist*		*2017–2019*
Post-Doctoral Research Scholar		*2012–2017*
Iowa State University		**United States**
⊘ *Research Assistant*		*2008–2012*
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*