Nikodem Grzesiak

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EDUCATION

University of Pennsylvania, School of Arts and Sciences — Philadelphia, PA
Completed B.A. and M.S. in Physics in 3 years — 2015 - 2018
Concentration*: Physical Theory and Experimental Techniques*
Physics GPA: 3.86; M.S. GPA: 3.93

RELEVANT COURSEWORK

Quantum Engineering, Modern Optics & Spectroscopy, Quantum Mechanics I & II, E&M I & II, Thermodynamics, Computational Neuroscience, Programming Languages (Python, Java, C++), Laboratory Electronics, Stat. & Probability Th.

EXPERIENCE

European Organization for Nuclear Research (CERN) — Geneva, Switzerland; *Summer 2017*
Research Assistant — Philadelphia, U.S.; *Dec 2016 – Oct 2017*

- Lead analysis of various computational approaches to ATLAS Level 1 trigger algorithm, to increase trigger efficiency for jets by analysis and visualization of data using UNIX environment and ROOT programming language (C++ based). Research findings used by Ph.D. candidate from UPenn. Focus on future upgrades to ATLAS detector trigger system: more granular calorimeters will provide additional performance for event identification and data acquisition, but algorithms have not yet been optimized
- Increased the expected efficiency by 5% - 100's of GB's of more finely selected future data
- Collaborated with and presented analysis of primary data to ATLAS Data Acquisition Team

Philip Morris International R&D — Neuchâtel, Switzerland
Research Analyst — *Summer 2016*

- Initiated systematic, scientific literature search on multi-faceted relationship between Parkinson's Disease and nicotine, which required reading and analyzing over 200 scientific publications
- Wrote a comprehensive PD-nicotine literature review for internal company purposes. Based upon that research more narrowly focused article has been published online at bioRxiv (DOI: https://doi.org/10.1101/161240)
- Collaborated with statisticians on analysis of the company research data for submission to FDA
- Presented research findings and conclusions to Product Assessment and Scientific Substantiation Office

Philip Morris International — Lausanne, Switzerland
Marketing & Sales Intern — *Summer 2014*

- Developed, translated and implemented e-learning modules to internal training app (EEMA 360); the app connects salesforce and provides lessons to retail store managers and sales representatives on marketing, managing store layout, best company practices, human resources, and many others
- Updated international versions of EEMA 360 and coordinated roll out in South Africa, Turkey and South East Europe, which required effective communication and coordination with international offices

LEADERSHIP

UPenn Class Board 2019 — Philadelphia, U.S.
Freshman VP of External Affairs — *Oct. 2015 – Oct. 2016*

- Collaborated to organize on-campus class integration events such as Econ Scream, Skimmerfest, Holi and others
- Raised $2000 external sponsorship for Class Board projects such as T-Shirt giveaways and others

Penn Innovation Conference (PIC) — Philadelphia, U.S.
Sponsorship Chair — *Feb. 2016 – Present*

- Lead small team responsible for sponsorship packet and maintaining relationships with partners
- Negotiated terms with sponsors; Successfully raised over $5,000 from on-campus and corporate sources
- Successfully organized conference with 14 speakers for 150 attendees

PERSONAL

- Manage $25k crypto assets portfolio using technical analysis started with $2k initial investment in March 2017
- Top 10 in several Polish National Chess Championships for Juniors; FIDE Rating: 1702
- Rotary Youth Exchange 2012-2013 to U.S.; Lived with 4 different host families for 1 year total in Sterling, IL

SKILLS AND INTERESTS

- Programming: Mathematica, Python, C++, ROOT, Java, NetLogo, MATLAB, Excel
- Languages: Polish (Native); English (Full Proficiency); French (Full Proficiency); Spanish (Intermediate)
- Interests: Water Sports: Scuba Diving, Sailing, Windsurfing; Drums, Tennis, Skiing, Chess; Quantum Information Science, Machine Learning, Neuroscience, Blockchain