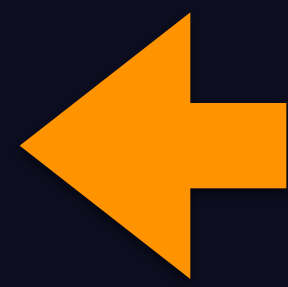


Short bio of panelists

Non-academic career panel

Felix Matathias



Engineering Manager, Uber Advanced Technologies Group

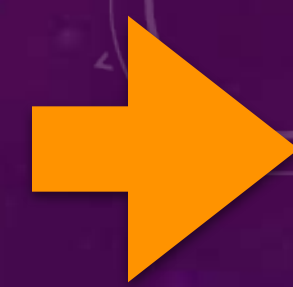
Advanced
Technologies
Group

UBER

- **Ph.D. in Relativistic Heavy Ion Physics from Stony Brook University (2004)**
 - PHENIX Experiment, BNL
 - Identified Particle Production in d+Au collisions
- **Post Doctorate at Columbia University in the City of New York (2006)**
- **Bloomberg LP (2006-2016)**
 - Fixed Income Software Engineer
 - Engineering Manager: Bond Pricing Group BVAL
 - Global Head of Engineering: Bloomberg Indexes
- **Uber Advanced Technologies Group (2016-Present)**
 - Engineering Manager in the Self Driving Division
 - Self Driving Vehicle Triage
 - Search Applications
 - Data Engineering
 - Analytics Platform

UBER

US ATLAS Workshop 30/07/2018



JEFF MITCHELL

- **Ph.D. in Nuclear Physics from Yale University. Worked on Experiment E814 (BNL AGS).**
- **Postdoc at Lawrence Berkeley National Laboratory. Worked on Experiment NA35 (CERN SPS) and STAR (BNL RHIC).**
- **Staff Scientist at Brookhaven National Laboratory for 22 years.**
 - **Worked for 20 years on PHENIX (BNL RHIC).**
 - **Technical work focused on pattern recognition software. Served 6 years as data production manager and analysis production manager for PHENIX.**
 - **Relativistic Heavy Ion physics analyses focused on global observables, fluctuations, search for the QCD critical point.**
 - **Budget cuts forced me to switch to Environmental Science in 2016.**
 - **I spent one year developing machine learning applications for the Atmospheric Radiation Measurement Climate Research Facility (ARM).**
 - **With more severe budget cuts looming, I completed my transition to industry.**
- **Medical Researcher at Zoll Corporation for the past year working on applications for cardiology. Now working to save lives!**





Brief History, Norbert Roma (né Grot)

Born and raised in Gdynia, Poland

Education:

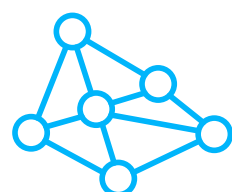
- Attended University of Gdańsk, majoring in physics (one programming class)
- Ph.D. from Dept. of Physics and Astronomy, University of Pittsburgh (worked as a network admin).

Work history:

- UPMC, database coordinator
- CMU-originated startup, Software Designer and Research Scientist
- Google, Software Engineer Tools and Infrastructure

INSIGHT

PROGRAMS



DATA SCIENCE
FOR PHDS



DATA ENGINEERING
FOR ENGINEERS



HEALTH ANALYTICS
FOR BIOLOGISTS



ARTIFICIAL INTELLIGENCE
FOR PHDS AND ENGINEERS

DEVOPS

DATA PRODUCT MANAGEMENT

LOCATIONS

BOSTON

NEW YORK

SEATTLE

SAN FRANCISCO & SILICON VALLEY

TORONTO

+ REMOTE

Kyle Frankovich

PhD in Cognitive Neuroscience - UC Davis

kyle@insightdatascience.com

Project next slide
during discussion

Non-academic career panel

Felix Matathias

Jeff Mitchell

Norbert Grot

Kyle Frankovich

PhD Nuclear Physics
(Stony Brook U)

PhD Nuclear Physics
(Yale)

PhD Loop Quantum Gravity
(U **Pittsburgh**)

PhD Cognitive Neuroscience
(UC Davis)
BS from U **Pittsburgh!**

Postdoc at Columbia

Postdoc at LBL

-

-

10 yrs at finance

22 yrs as BNL staff scientist

-

-

Now at Uber ATC
in **Pittsburgh**

Now at Zoll
in **Pittsburgh**

Now at Google
in **Pittsburgh**

Now at Insight

Advice, etc.

Non-academic career panel

JEFF'S CAREER ADVICE

In today's budget climate, make sure you have an escape route.

- Pick an alternative career path.
- Take the time to learn the skills you need for that career path.
Online learning paths are now available for almost every skill.
- Keep up to date on advances in your alternative career path.
Read papers, blogs, subscribe to newsletters, etc.
- Never let your skills stagnate.
Take refresher classes on programming, math, etc.
Trust me, if you don't use it, you lose it.
- Keep working on your network and contacts. Their advice is invaluable if you decide to transition.



Google Recruiting

Jobs listings and applications

- Jobs listings: <https://careers.google.com/jobs>
- While you're still a student: <https://careers.google.com/students/>
- Send me email: kot@google.com

Useful things to do

- Online coding competitions (I used top coder [marathon match](#) tasks back in 2008).
- Write code:
 - mundane projects that aren't faster in software
 - open source contributions
 - personal projects