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Gustav Vigelandsvei 34
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Education

- Ph.D Data Science
University of Oslo, Norway (2017)
- MSc Physics
Norwegian University of Science and Technology, Norway (1999-2004)
- Exchange student
Quantum Mechanics, Math Modelling
UNSW, Australia, 2003
- Bjerkely County School
One year directed C++ study
Norway, 1999-2000

Achievements

- 25+ peer-reviewed research publications in applied data science
- 30+ international conference talks
- Research cited in 50+ high-profile media, incl. MIT Technology Review, Wall Street Journal, Huffington Post, Science News, Harvard Magazine, Big Data Report to President Obama and more.

Pål Sundsøy

Senior quantitative analyst, Phd

Pål Sundsøy is a Senior Quantitative Analyst in Investment Strategies at Norges Bank Investment Management (NBIM). NBIM is the investment arm of Norway's central bank that manages the world's largest sovereign wealth fund, with assets over \$950 billion USD. He has published over 25 research publications and given over 30 international conference talks on Big Data for Social Sciences. He holds a Msc in Physics from Norwegian University of Science and Technology and a PhD in Data Science from University of Oslo.

Experience

NORGES BANK INVESTMENT MANAGEMENT

2016- Present

Senior Quantitative Analyst, Asset Strategies Group, Investment Strategies

- Global Equity Models, Machine Learning, Quant Finance
- 2017.10.01 – Asset Strategies / Investment Strategies, RFS
- 2016.06.01-2017.10.01 Investment Risk Analytics

TELENOR GROUP RESEARCH

2007- 2016

Senior Data Scientist/researcher, Big Data Analytics

- Working globally across South-East Asia, Europe and US
- Heading all research initiatives with MIT
- High-profile research on large-scale mobile phone datasets
- See reference <https://goo.gl/hY110i> for details

EUROPEAN SPACE AGENCY

2006- 2007

Head Engineer, Hinode Space Mission

- Developing search engine for Hinode Sun-observation Satellite
- International collaboration between NASA, ESA & JAXA.
- Data Centre based at Institute of Theoretical Astrophysics, Oslo

WORLD HEALTH ORGANIZATION

2006

Database developer / Analyst, Unit of Health Statistics and Evidence

- Developing databases related to global vital registration systems and statistical analysis

UNIVERSITE DE GENEVE

2005-2006

Researcher, Applied Physics, Quantum Cryptography

- Working in world leading research group of quantum communication
- Developing first prototypes of Quantum Cryptography

NORWEGIAN UNIVERSITY OF SCIENCE & TECHNOLOGY

2004- 2005

- Database programmer, Institute of Biotechnology (2004-2005)
- Teaching Assistant, Quantum Physics / Atomic Physics, Institute of Physics (2004)

References

- E.Jahani (MIT)
- Y.A.Montjoye (MIT, Imperial College)
- J.Bjelland (Telenor Group)
- T. Couronne (Telenor Group)
- S.V. Haugan (Astrophysics, UIO)

Selected Publications

- **Improving Official Statistics in Emerging Markets using Machine Learning and Mobile Phone Data.**
Joint work with MIT Media Lab.
EPJ Data Science (2017).
- **Mapping Poverty using mobile phone and satellite data.**
Joint work with MIT Media Lab & Flowminder.
Royal Society Interface (2017)
- **Towards real-time prediction of unemployment and profession.**
Joint work with MIT Media Lab and Flowminder.
Springer, LNCS, Social Informatics, Oxford University (2017)
- **Deep learning applied to mobile phone data for Individual income classification.**
Joint work MIT Media Lab.
ICAITA International conference on Artificial Intelligence (2016)
- **Big Data-Driven Marketing: How machine learning outperforms marketers gut-feeling.**
Joint work with MIT Media Lab.
Springer LNCS Vol. 8393 (2014)
- **Mitigating the Risks of Financial Exclusion: Predicting illiteracy with standard mobile phone logs.**
Springer LNCS Vol. 10354 (2017).
- **Impact of human mobility on the emergence of dengue epidemics in Pakistan.**
Joint work Harvard University.
PNAS (2015)
- **Comparing and visualizing the social spreading of products on a large-scale social network**
The influence on Technology on Social Network Analysis and Mining, Springer (2013)
- **Modeling the Temporal Nature of Human Behavior for Demographics Prediction**
Joint work with MIT Media Lab and Imperial College
ECML-PKDD – The European Conference on Machine Learning (2017)

Scientific Program Committees

- **NetMob** – Leading conference on scientific analysis of large mobile phone datasets
2013, Massachusetts Institute of Technology (MIT)
2015, Massachusetts Institute of Technology (MIT)
2017, Vodafone Theatre, Italy
- **Social Informatics** – interdisciplinary conference in computational social sciences
2017, University of Oxford
- **Netsci** – the flagship conference on interdisciplinary network science research
2017, Indiana University, US
- **Complex Networks**
2017, France
- **CARMA** - International Conference on Advanced Research Methods and Analytics
2016, Valencia, Spain
- **KDD** - Knowledge Discovery & Data Mining
2014, New York
- **ICDM** - International Conference on Data Mining
2014 China