Mathematics PhD Careers Networking Evening

Tuesday 24th April 2018
18:00 – 20:30
341/342 Huxley

Careers Service
www.imperial.ac.uk/careers
Welcome.

The Mathematics PhD Careers Networking event is a collaboration between the Careers Service and the Department of Mathematics.

This popular annual event will follow a speed dating format where small groups of PhD students will rotate around the employer tables spending a short amount of time with each organisation. After the formal rotations there will be an opportunity for students and employers to network in an informal setting with refreshments provided.

This event provides a unique opportunity for our PhD students to speak with PhD graduates from mathematics working for a variety of organisations. Throughout the evening there will be plenty of opportunity to gain inspiration, ideas and guidance on career options at the end of your studies.

We would like to take this opportunity to thank our guests for attending and to encourage our PhD students to explore the company profiles on the following pages in advance of the event. Please also note that the Careers Service is open throughout the year and offers range of support services both online and in person including PhD seminars, workshops and 1-2-1 appointments. Full details of these services can be found at www.imperial.ac.uk/careers in addition to PhD course run in collaboration with the Graduate School at www.imperial.ac.uk/graduate-school.

We hope you enjoy the evening.
ASI Data Science

ASI is a London based firm who are experts in applying artificial intelligence to solve business problems. We focus on:

• Consulting: expert data scientists and engineers working with companies to deliver business advantage and build capability.
• Fellowship: industry leading 8-week training and placement programme to become data scientists or data engineers.
• Sherlock ML: secure, powerful platform for data science, removing the need to create a new technical stack within organisations.

We have worked with a large number of blue chip firms and public sector organisations including: EasyJet, BBC, Siemens and Tesco.

For further information about ASI Data Science, please visit www.asidatascience.com
Applications for the fellowship: www.asidatascience.com/fellowship

Barclays

Barclays is a place for open minds and big ideas. It’s for the openly curious, the natural collaborators, the people who believe there’s always a better way.

Our Quantitative Analytics team is a global organisation of highly specialized quantitative modellers and developers. QA is an integral part of the bank, responsible for developing, testing, implementing and supporting quantitative models for valuation and risk management of traded assets, regulatory and economic capital, impairments, fraud detection, asset-liability management, operational risk, net revenue and balance sheet forecasting, and stress testing across Barclays.

At Barclays, you’ll be surrounded by top talents and experts of the industry, who will help you to achieve your goals and ambitions. Our collaborative and supportive environment gives you the chance to build solid relationships with senior leaders and peers alike, as well as gaining invaluable exposure to real world problems in our dynamic and invigorating environment, by working on cutting edge quantitative and technology issues.

We offer internships / graduate positions for talented individuals (graduating 2019 or before) with a PhD or Masters in a technical discipline such as Quantitative Finance, Statistics, Operations Research, Mathematics, Computer Science, Physics, Machine Learning or similar.

Not only you will need strong mathematical, analytical, statistical and/or programming skills, but also have attention to detail, enjoy real world problem solving, have clear communication skills and a track record of collaborative team work.

We offer you an incredible opportunity.

For further information about Barclays, please visit www.home.barclays
Facebook

People are at the heart of every connection we build. We design products and deliver services that bring the world closer together — one connection at a time.

Whether we’re creating new products or helping a small business expand its reach, people at Facebook are builders at heart. Our global teams are constantly iterating, solving problems, and working together to empower people around the world to build community and connect in meaningful ways. Together, we can help people build stronger communities — we’re just getting started.

The chance to move fast, be bold and build products and services with impact has never been greater. At Facebook, we have a saying that the journey is only 1% finished — join us as you begin yours. We have tons of exciting opportunities available for university grads and interns who want to help us in our mission to bring the world closer together.

A global hub of culture and innovation, London is the ideal place for talented engineers, marketers, and designers hungry to make an impact. Teams work on a diverse range of projects that span across cultures throughout the EMEA region. They build new tools and design products that are bringing the world closer together.

For further information about Facebook, please visit www.facebook.com

Google DeepMind

DeepMind is the world leader in artificial intelligence research and its application for positive impact. We’re on a scientific mission to push the boundaries of AI, developing programs that can learn to solve any complex problem without needing to be taught how.

If we’re successful, we believe this will be one of the most important and widely beneficial scientific advances ever made, increasing our capacity to understand the mysteries of the universe and to tackle some of our most pressing real-world challenges.

DeepMind was founded in London in 2010 and backed by some of the most successful technology entrepreneurs in the world. Having been acquired by Google in 2014, we are now part of the Alphabet group.

We continue to be based in our hometown of London, alongside some of the country’s leading academic, cultural and scientific organisations in the King’s Cross Knowledge Quarter. Our business has a start-up entrepreneurial culture but operates within a large, high profile global company - so you will need to be flexible and ready for anything.

For further information about Google DeepMind, please visit www.deepmind.com
GORS

The Government Operational Research Service (GORS) works at the heart of central government, helping to shape national policy that will affect millions of people. Our analysis teams cover a broad range of remits from dealing with resource allocation, workforce planning, forecasting, performance measurement and strategic planning. There are currently around 700 professional OR analysts tackling a vast range of political, economic and social issues across more than 25 government departments and agencies.

For further information about GORS, please visit www.operational-research.gov.uk/recruitment

G-Research

G-Research is a leading quantitative research and technology company. We use scientific techniques, big data and world-class technology to predict future movements in financial markets, and we develop the platform to deploy these ideas globally across multiple asset classes. We offer a dynamic, flexible and highly stimulating environment where good ideas are prized and rewarded.

For further information about G-Research, please visit www.gresearch.co.uk
**Nivaura**

Nivaura is a FinTech company founded and run by academics and technologists with years of experience in investment banking. Their focus is on automating the entire life of a financial instrument in one seamless and compliant process. In investment banking this is typically highly fragmented, costly, opaque, and complex. The costs then carry over for small and medium sized businesses who try to gain funding from the markets, making it virtually impossible to do so without incurring significant costs, making such funding routes unviable. Nivaura provides its technology as an ‘investment banking in a box’ solution to current intermediaries such as investment banks and exchanges so that they may reduce costs and offer compliant and profitable services to smaller businesses. The technology and long term development of the company involves a strong focus on R&D, specifically in areas concerning mathematical modelling and artificial intelligence.

Nivaura are currently one of four companies globally In-Residence at J.P. Morgan, and are Entrepreneurs in Residence in magic circle law firm Allen & Overy’s incubator, Fuse. Nivaura have automated the issuance of financial instruments both traditionally but also using blockchain infrastructure. Recently Nivaura executed the world’s first legally compliant, cryptocurrency denominated bond, entirely cleared and settled on a public blockchain. Nivaura are offering job opportunities for academics to further develop, apply and commercialise their skills in financial services, but also cross-industry.

Recent press:
- www.allenovery.com/SiteCollectionDocuments/Cohen_Smith_Automation_Blockchain.pdf

For further information about Nivaura, please visit [www.nivaura.com](http://www.nivaura.com)

**Nomura**

Nomura is an Asia-headquartered financial services group with an integrated global network spanning over 30 countries. By ‘Connecting Markets East & West’, Nomura services the needs of individuals, institutions, corporates and governments through its three business divisions: Retail, Asset Management, and Wholesale (Global Markets and Investment Banking). Founded in 1925, the firm is built on a tradition of disciplined entrepreneurship, serving clients with creative solutions and considered thought leadership.

At Nomura, we offer a range of graduate and internship programmes across three key areas; investment banking, global markets and corporate infrastructure. Internship opportunities can include a 10 week summer internship or a 3-6 month off cycle internship in our London office.

For further information about Nomura, please visit [www.nomuraholdings.com/careers/](http://www.nomuraholdings.com/careers/)
Smith Institute

Harnessing mathematics, the Smith Institute specialises in solving complex tactical and strategic problems for businesses, governments and organisations.

A team of expert mathematicians with a wealth of industry experience, we work with organisations to develop and in-depth understanding of their domain areas, the challenges they face and the services they need. Our well-established business model is built around client projects, each providing bespoke solutions designed to meet individual client requirements.

The Smith Institute uses system engineering, data analysis, algorithm development and model building techniques as a way of gaining maximum understanding. Further, our unique position working with the academic community enables us to leverage the latest research to meet industrial and organisational needs. We are experts at translating research in the mathematical sciences and applying this to real-world problems in a timely and usable way.

With over twenty years of business, our expertise lies in the following areas: decision making under uncertainty, bespoke models for energy, spectrum optimisation and strategic consultancy and research management.

For further information about the Smith Institute, please visit www.smithinst.co.uk

TPP

TPP are a leading IT company, dedicated to delivering world class healthcare software through our innovative products. Our philosophy is to join up healthcare based on a shared electronic health record, improving access to clinical data and empowering patients to take part in their care. We are known for our outstanding achievements across the NHS, providing electronic health records on a centrally hosted database for over 47 million patients. We are growing internationally too, with projects ongoing across the Middle East and China.

We are based in Leeds with over 200 employees and have been consistently recognised as an outstanding graduate employer. In 2014 and 2015 we placed first in The Sunday Times 100 Best Small Companies To Work For. Most recently, we were named ‘Top Company For Graduates To Work For’ 2016/17 by The JobCrowd.

For further information about TPP, please visit www.tpp-uk.com and www.tpptop50.com

On the next page you’ll find a list of company representatives provided by the above organisations.
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<thead>
<tr>
<th>Company</th>
<th>Name</th>
<th>Job Title</th>
<th>Education Background</th>
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<tbody>
<tr>
<td>ASI Data Science</td>
<td>Alex Moore</td>
<td>Data Analyst</td>
<td>MSc Physics (Imperial)</td>
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<tr>
<td>ASI Data Science</td>
<td>Alexander Adam</td>
<td>Data Scientist</td>
<td>PhD Theoretical Physics (Imperial)</td>
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<tr>
<td>ASI Data Science</td>
<td>Benjamin Green</td>
<td>Data Scientist</td>
<td>PhD Mathematics (Oxford)</td>
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<td>Barclays</td>
<td>Markus Fritz</td>
<td>Director</td>
<td>PhD in Mathematics (Imperial)</td>
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<tr>
<td>Barclays</td>
<td>Sophie Liu</td>
<td>Recent Graduate</td>
<td>MSc Mathematics (Imperial)</td>
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<td>Barclays</td>
<td>Fengli Shi</td>
<td>Research Scientist</td>
<td>PhD Computer Science (Durham)</td>
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<td>Barclays</td>
<td>Paul Marinescu</td>
<td>Research Scientist</td>
<td>PhD University Recruiter for Data Science</td>
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<td>Facebook</td>
<td>Cheryl White</td>
<td>University Recruiter for Machine Learning</td>
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<td>Facebook</td>
<td>Ellie Sykes</td>
<td>Research Scientist</td>
<td>PhD University Recruiter for Data Science</td>
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<td>Facebook</td>
<td>Audrunas Gruslys</td>
<td>Research Scientist</td>
<td>MSc Mathematics (Cambridge)</td>
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<td>Facebook</td>
<td>Georg Ostrovski</td>
<td>Head of Research Engineering</td>
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<td>Facebook</td>
<td>Andreas fliedland</td>
<td>Head of Research Engineering</td>
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<td>Facebook</td>
<td>Louise Davies</td>
<td>Head of Research Engineering</td>
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<td>Google DeepMind</td>
<td>Trevor Pinto</td>
<td>Operational Research Analyst for Work and Education</td>
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<td>Google DeepMind</td>
<td>Luke Stanbra</td>
<td>Data scientist</td>
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<td>Katie Laing</td>
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<td>Vic Aulchandran</td>
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<td>Avtar Sehra</td>
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<td>Hariton Korizis</td>
<td>Associate, Global Markets, Quantitative Research</td>
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<td>Rachael Warrington</td>
<td>Director of Research &amp; Analytics</td>
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