



THE UNIVERSITY *of* EDINBURGH
School of Mathematics

Information for students- MSc Projects with Industry

Feb 2021

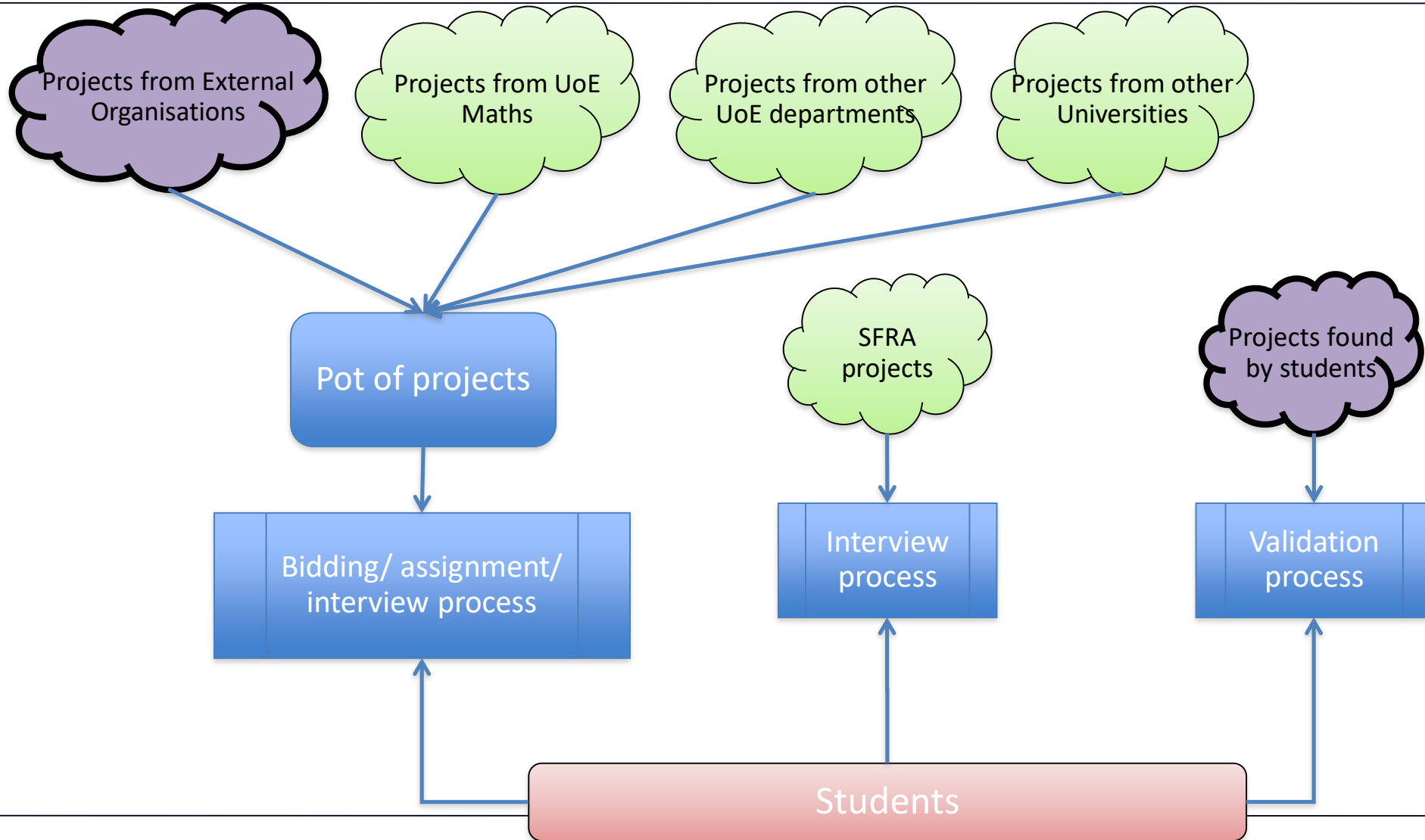


Information for Students - MSc Projects

Projects with an industry partner – Rosie Wilkie

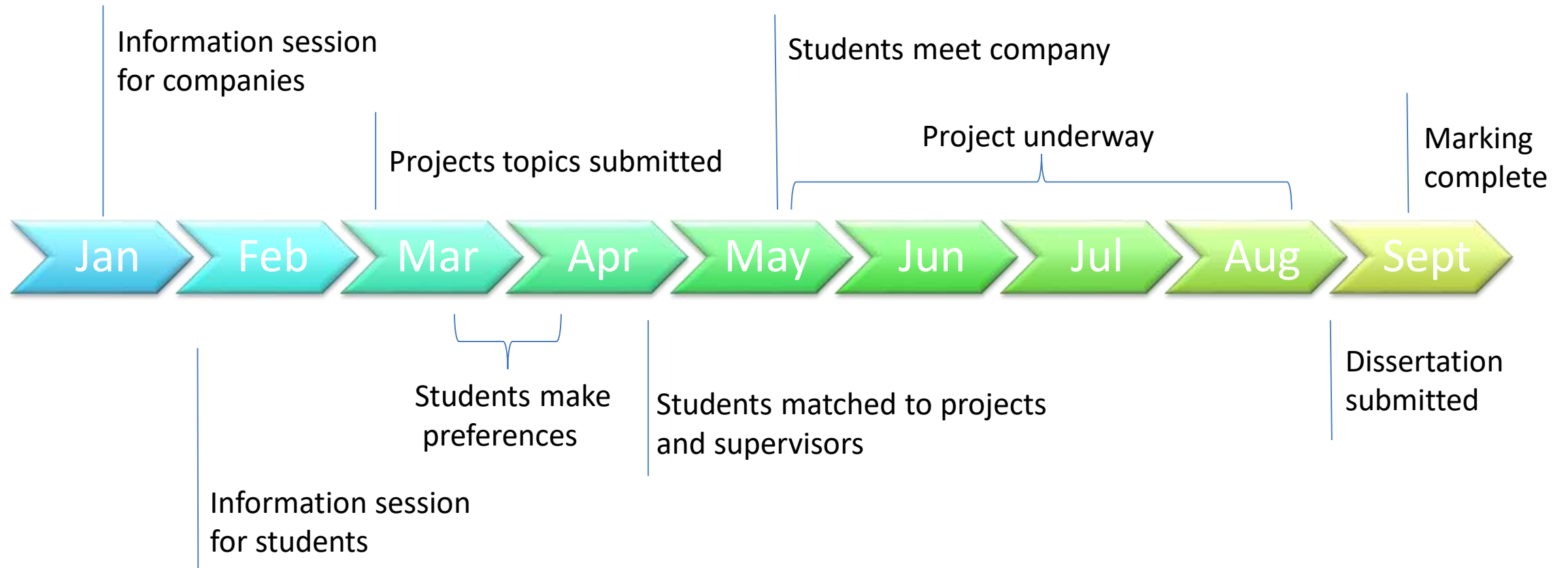
- Project sources and high level timeline
- Benefits from on these types of projects
- Examples of past partners
- Considerations when working with an industry partner

Sourcing your own project – Matt Vickers





MSc Project Timeline





Why do a project with an industry partner?

- You may prefer a more applied “real life” project?
- Build your networks
- Employers may recruit students who have already worked for them
- Excellent experience for your CV / discuss at interview
- Show you can work in the UK and gain a UK reference
- Develop your people and relationship skills
- **Projects with an industry partner can benefit you even if you plan to continue in a teaching and research role**



Who have we worked with before?

Consultancy Services

Sopra Steria
IBM
KPMG
Arup

Central Government

NHS
Public Health Scotland
Scottish Government
GORS

Energy Systems

Wood MacKenzie
EMEC
TNEI
Upside Energy

Banking and Finance

NatWest
Baillie Gifford
Money Dashboard
Barclays

Others

Nextail
Smartify
Edinburgh Airport
Optrak Distribution



What happen to other students who did these projects?

Quentin Dhumeaux, MSc in OR with Data science, 2019

- Dissertation title: “Modelling temporary accommodation in England (using Time series forecasting and clustering)” - DWP
- Current role: “Operational Researcher in the Department for Work and Pensions - Universal Credit forecasting”
- LinkedIn: www.linkedin.com/in/quentin-dhumeaux-51b38114b

Xiaodong Xi, MSc Operational Research with Data Science, 2018

- Dissertation title “Diagnostics to Assess Credit Model Risks for Neural Network Models” – NatWest (RBS)
- Current Role : Model Risk Data Scientist, NatWest
- LinkedIn: <https://www.linkedin.com/in/xiaodong-xi-4a878911a>

Vincent van Ham, MSc Operational Research with Data Science, 2016

- Dissertation title “Optimal patient throughput in Red Cross hospital, Beverwijk”
- Capacity Manager, Red Cross Hospital, Beverwijk (Rode Kruis Ziekenhuis)
- LinkedIn: [Vincent van Ham | LinkedIn](#)



Other things to consider

- Supervision; both industry and academic
- Communication tools, remote working, time differences
- Confidentiality of data and commercial information
- Important to be proactive
- You will likely need to research a domain topic as well as the maths methodology
- Try to meet others in the team (not just your supervisor).
- We would love you to write a blog post about your project or record a vlog