The Fourth Year Project Selection Process

Andrew Gee

Department of Engineering, Cambridge

26 April 2021
Type A and B projects

Type A projects are proposed by staff, Type B by students. Tomorrow is the deadline for sending Type B proposals to coordinators. If a Type B project is not viable, a Type A project must be selected instead. Most students choose a Type A project.
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Group centres

A: Thermodynamics and Fluid Mechanics
   Prof Stewart Cant
B: Electrical Engineering
   Prof Sir Mark Welland
C: Mechanics and Materials
   Dr Graham McShane
D: Civil, Structural and Environmental Engineering
   Prof Abir Al-Tabbaa
F: Information Engineering
   Dr Sumeet Singh

Overall coordinator
   Dr Andrew Gee
Group centres

A: Thermodynamics and Fluid Mechanics
   Prof Stewart Cant (Mrs Kate Graham)

B: Electrical Engineering
   Prof Sir Mark Welland (Mrs Susan Murkett)

C: Mechanics and Materials
   Dr Graham McShane (Mrs Hilde Hambro)

D: Civil, Structural and Environmental Engineering
   Prof Abir Al-Tabbaa (Mrs Sue Stocks)

F: Information Engineering
   Dr Sumeet Singh (Mrs Lina Zvaginyte-Bagociene)

Overall coordinator
   Dr Andrew Gee
Finding out about projects
Making your choices
Project allocation

COMET

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Group F Project List for 2019-2020

Projects are being offered by members of staff in the following fields:

- Communications
- Computer Vision and Robotics
- Control
- Medical Imaging
- Signal Processing
- Software Engineering and Computing
- Speech Processing
- Bioengineering
- Machine learning

Credits
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F: Machine learning

Somenath Bakshi

- F-SB2330-1: Machine-learning based image-segmentation for synthetic biology

Miguel Hernandez Lobato

- F-3P9233-1: Graph neural networks
- F-3P9233-2: Theoretical and empirical analysis of probability measure morphing
- F-3P9233-3: Bayesian deep learning, Laplace approximation and model linearization

Joan Lasenby

- F-JL1: Machine learning (ML) for autonomous training of image-based inspection systems.

Athina Markaki

- F-AM253-3: Architecture Characterisation of Porous Scaffolds for Tissue Engineering using Machine Learning

Timothy O’Leary

- F-TS024-2: Deep learning for cell biology

Elena Punskaya

Google | Work | Play

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Information and Computer Engineering

Ozgur Akan
- F-OBA21-2: DNA-based molecular communication - Simulation and capacity calculation for DNA-based bit-wise molecular communication in a diffusive channel

Somenath Bakshi
- F-SB2330-1: Machine-learning based image-segmentation for synthetic biology

Ioannis Brilakis
- D-IB340-2: Generating product assembly sequences from construction products

David Cebon
- C-DC-1: Mapping and Reversing

Roberto Cipolla
- F-CIPOLLA-1: Building a food ingredient recognition system
- F-CIPOLLA-2: Human pose and 3D shape estimation from mobile phone images
- F-CIPOLLA-3: Image-based relocalisation in indoor environments using mobile phones
- F-CIPOLLA-4: Augmenting reality for paper based electrocardiograms

Michael Crisp
- B-MIC87-1: Distributed Software Defined Radio for RFID
- B-MIC87-3: Backscatter communication simulation
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Ask about supervision style, what you will actually be doing, research environment, chances of getting the project.
Factors to consider

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You need to be excited about the project.

You need to get on with the supervisor and have compatible working habits.

You need the time and space to be able to balance module and project work.

Be aware of any collaborations and confidentiality issues.
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If a project you are considering is pre-allocated, you have at least one week to make a different choice.
Expressing your preferences

Nominate *three* projects, in order of preference, on COMET between tomorrow and Friday 21 May.
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Let supervisors know if you are willing to take on any of their other projects.
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We aim to maximize global happiness!
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If you have been unlucky or did not make strategic choices, you should contact the coordinator of the group that is of most interest to you. They will assist you in finding a project.
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Take-home points

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Check you have compatible working habits.
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Any questions?