

Department of Computer Science

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Allocated Projects

Code	Supervisor	Second Marker	Working title	Allocated to	Suitable for
ADB-UG-1	A.Brucker	H.Cunningham	A Model-Driven Approach for Generating Docker/Singularity/ISO/VM-Images	Stephen Foulds	CS/Math/SE
ADB-UG-2a	A.Brucker	H.Lu	Static Data Flow Analysis for Finding Security Vulnerabilities in Mobile Apps	Anika Rahanu	CS/Math/SE
ADB-UG-2b	A.Brucker	N.Walkinshaw	Static Data Flow Analysis for Finding Security Vulnerabilities in Mobile Apps	Hin Lau	CS/Math/SE
ADB-UG-5	A.Brucker	A.Simons	Analysing/Verifying/Attacking/Testing Smart Contracts (Blockchains)	Sivakumar Chokkapu	CS/Math/SE
ADB-UG-8a	A.Brucker	K.Bogdanov	A Browser Extension for Finding Security Vulnerabilities in Web Applications	Ellis Squires	CS/Math/SE
ADB-UG-8b	A.Brucker	M.Stevenson	A Browser Extension for Finding Security Vulnerabilities in Web Applications	Jack Barradell-Johns	CS/Math/SE
ADB-UG-9	A.Brucker	S.Ordyniak	Finding Malicious Browser Extensions	Zili Zhang	CS/Math/SE
ADB-UG-10	A.Brucker	P.Oliveto	Finding Security Issues in (Open Source) Software Repositories	Zer Jun Eng	CS/Math/SE
ADB-UG-13	A.Brucker	O.Olayinka	Security and Privacy Cockpit for Browser Extensions	Thomas Connery	
TJP-UG-1a	A.Prescott	P.Watton	MiRo robot football	Wonwoo Soh	CS, SE, AI&CS
TJP-UG-1b	A.Prescott	M.Villa-Uriol	MiRo robot football	Hok Yu	CS, SE, AI&CS
TJP-UG-1c	A.Prescott	J.Winkler	MiRo robot football	Yucheng He	CS, SE, AI&CS
TJP-UG-2	A.Prescott	M.Stannett	Building and testing robotic models of mammalian spatial cognition	Vladyslav Bondarenko	CS, SE, AI&CS

TJP-UG-3a	A.Prescott	T.Hain	Telepresence immersion in an animal-like robot	Harvey Cash	CS, SE, AI&CS
TJP-UG-4	A.Prescott	R.Taylor	Therapy robots for special needs education	Daniel Tredget	CS, AI&CS, ITMB
EKB-UG-1	E.Kavun	A.Stratton	Automation bias, confirmation bias, and decision support systems	Finlay Panting	CS, SE, AI and CS, Aero, ITMB
EKB-UG-2	E.Kavun	R.K.Moore	Automation bias, confirmation bias, and decision support systems	Sara-Louise Goodworth	CS, SE, AI and CS, Aero, ITMB
EKB-UG-3	E.Kavun	M.Hepple	Automation bias, confirmation bias, and decision support systems	Ritwesh Chatterjee	CS, SE, AI and CS, Aero, ITMB
EKB-UG-4	E.Kavun	F.Ciravegna	Automation bias, confirmation bias, and decision support systems	Luke Worgan	CS, SE, AI and CS, Aero, ITMB
EKB-UG-8	E.Kavun	M.Villa-Uriol	Student proposed project	Mohamed Ibrahim	Student Proposed Project
EKB-UG-9	E.Kavun	M.Stevenson	Developing a recipe advise system	Ziyuan Gao	CS, SE, AI and CS, Aero, ITMB
AJHS-UG-4	A.Simons	E.Kavun	Modular testing by combination of testable state machines	David Dixon	CS, SE, AI
AJHS-UG-5	A.Simons	H.Cunningham	JSON-to-Java marshalling for Java Abstract Syntax Trees (http://staffwww.dcs.shef.ac.uk/people/A.Simons/jast/)	Charles Linacre	CS, SE, AI, ITMB
AJHS-UG-7a	A.Simons	S.Ordyniak	Ferromone Trails for self-organising trains	Ruairi Sinkler	CS, SE, AI
AJHS-UG-7b	A.Simons	E.Vasilaki	Ferromone Trails for self-organising trains	Idris Nigena	CS, SE, AI
AJHS-UG-7c	A.Simons	M.Stannett	Ferromone Trails for self-organising trains	Harry Hirst	CS, SE, AI
AS-UG-1a	A.Stratton	G.Struth	Create Your Own - Startup Software Company	Ella Renton	All
AS-UG-1b	A.Stratton	P.McMinn	Create Your Own - Startup Software Company	Borja Leiva Blanco	All
AS-UG-2	A.Stratton	M.Stevenson	IBM Inventor - Visual Programming for EEG and IBM Watson	Andrei Clopotel	CS, SE, AI&CS, CS&Maths
AS-UG-3	A.Stratton	E.Vasilaki	Creating a Mixed Reality, AI, adventure game	Balraj Johal	CS, SE, AI&CS
DCW-UG-1	D.Walker	M.Stannett	A System for Managing and Scheduling Pre-school Sessions	James Walters	CS/SE/AI

DCW-UG-3	D.Walker	N.Walkinshaw	Development of a Python-based Teaching Tool: using a Bio-inspired Optimisation Method for solving the Travelling Salesman Problem (TSP)	Joseph Eid	CS/SE/AI
DCW-UG-4	D.Walker	H.Lu	A WebGL implementation of a 3D visualisation tool for simulations	Joseph Baguley	CS/SE/AI
DCW-UG-6a	D.Walker	J.Barker	Modelling cellular signalling in Multiple Myeloma (blood/bone cancer)	Robert Dennison	CS/SE/AI
DCW-UG-6b	D.Walker	H.Christensen	Modelling cellular signalling in Multiple Myeloma (blood/bone cancer)	Daniel Grindrod	CS/SE/AI
EJN-UG-2a	E.Norling	F.Ciravegna	A virtual opponent with human failings	Charles Mill	CS, SE, AI&CS
EJN-UG-2b	E.Norling	S.North	A virtual opponent with human failings	Joseph Slade	CS, SE, AI&CS
EJN-UG-3a	E.Norling	M.Stannett	Exploring the differences between infectious ideas and infections diseases using agent-based simulation	Christopher Mimm	CS, SE, CS&AI, CS&Maths
EJN-UG-3b	E.Norling	H.Christensen	Exploring the differences between infectious ideas and infections diseases using agent-based simulation	Matthew Kinton	CS, SE, CS&AI, CS&Maths
EJN-UG-4a	E.Norling	D.Walker	Considering cognition in crowd simulation	Tumurtogtokh Davaakhuu	CS, SE, CS&AI, CS&Maths
EJN-UG-4b	E.Norling	H.Lu	Considering cognition in crowd simulation	Oliver Long	
EJN-UG-6	E.Norling	K.Bogdanov	Using an Arduino and EMG sensors to visualise subject tension	Karan Sood	
EV-UG-3	E.Vasilaki	A.Simons	Artificial Intelligence Methods for predicting the success of a product	James Evans	All
EV-UG-5	E.Vasilaki	G.Struth	Train a robot to move underwater with brain-inspired AI Principles	Neville Kitala	CS/SE/AI&CS/CS&Maths
EV-UG-7	E.Vasilaki	J.Winkler	Creative Generative Adversarial Neural Networks - collaboration with Jaywing	Peter Kentish De La Iglesia	CS/SE/AI&CS/CS&Maths
EV-UG-8	E.Vasilaki	H.Christensen	Sentiment Analysis on Cryptocurrency Market	Suibin Hong	Student Proposed Project
EV-UG-9	E.Vasilaki	R.Taylor	EmoContext: Contextual Emotion Detection in Text	Philip DSouza	Student Proposed Project
FC-UG-1	F.Ciravegna	T.Hain	Uber for Self Driving cars	Justin Onn	CS
FC-UG-2	F.Ciravegna	N.Walkinshaw	Gamifying physical activity	Matthew Harding	CS

FC-UG-3	F.Ciravegna	R.K.Moore	Large scale analysis of mobile trajectories	Omar Itaf	CS/CSMaths
FC-UG-4	F.Ciravegna	D.Walker	the Story of my Life	Matthew Horton	CS
FC-UG-5	F.Ciravegna	P.Watton	learning on a mobile platform	Zain Baig	CS
FC-UG-7	F.Ciravegna	M.Mangan	Bringing brands and influencers together	Isaac Herring	
FC-UG-8	F.Ciravegna	O.Olayinka	Creating A City-wide Treasure Hunt	Marilia Elia	
GS-UG-1	G.Struth	N.Walkinshaw	Verification and Correctness of Functional Programs in Isabelle/HOL	Daniel Marshall	All
GS-UG-2a	G.Struth	M.Stevenson	Building a Simple Program Verification Tool in Haskell	Rees Britt	All
GS-UG-2b	G.Struth	E.Vasilaki	Building a Simple Program Verification Tool in Haskell	Jafer Hussain	All
GS-UG-3a	G.Struth	E.Norling	Programming a Tableau Calculus for Predicate Logic inHaskell	Abai Edmund	All
GS-UG-3b	G.Struth	A.Simons	Programming a Tableau Calculus for Predicate Logic inHaskell	Gregory Peters	All
GS-UG-4	G.Struth	A.Brucker	Formalising Elementary Geometry in Isabelle/HOL	Yujia Cheng	All
GS-UG-7	G.Struth	M.Mangan	Formalising Puzzles with a Model Checker	Simren Basra	All
HC-UG-1a	H.Christensen	M.Stevenson	Website to help with early diagnosis of dementia using an avatar	Alexander Chapman	CS, SE, AI&CS
HC-UG-1b	H.Christensen	F.Ciravegna	Website to help with early diagnosis of dementia using an avatar	Alexander Brown	CS, SE, AI&CS
HC-UG-2	H.Christensen	E.Vasilaki	Automatic analysis of fluency naming tasks to detect signs of dementia	Jia Lim	CS, SE, AI&CS
HC-UG-6a	H.Christensen	A.Simons	A dashboard-style interface for clinicians to get access to results from cognitive assessment to detect dementia	Katie Walker	CS, SE, AI&CS
HC-UG-6b	H.Christensen	E.Kavun	A dashboard-style interface for clinicians to get access to results from cognitive assessment to detect dementia	Hanne Tran	CS, SE, AI&CS
HC-UG-7a	H.Christensen	M.Villa-Uriol	Optimising use of collaboration technology in large corporate businesses	Ross Henderson	Student Proposed Project

HC-UG-7b	H.Christensen	O.Olayinka	Student proposed project	Luke Taylor	Student Proposed Project
HC-UG-8	H.Christensen	K.Bogdanov	Automatic feedback to coaches and therapists from multi-speaker conversation	Ruxandra Mindru	Student Proposed Project
HAC-UG-1	H.Cunningham	J.Barker	Off-grid air quality monitor	Nicolas Mavrides	CS/SE/AI&CS
HL-UG-3	H.Lu	G.Struth	Machine learning on brain fMRI for disease diagnosis (http://staffwww.dcs.shef.ac.uk/people/H.Lu/)	Jake Sturgeon	
HL-UG-4	H.Lu	P.Watton	Machine learning on brain fMRI for mind reading and/or pattern discovery (http://staffwww.dcs.shef.ac.uk/people/H.Lu/)	Mohammed Asim	
HL-UG-5	H.Lu	P.Peng	Deep learning for cardiac imaging registration (http://staffwww.dcs.shef.ac.uk/people/H.Lu/)	Lawrence Schobs	
HL-UG-6	H.Lu	T.Hain	Deep learning for cardiac imaging segmentation (http://staffwww.dcs.shef.ac.uk/people/H.Lu/)	Peng Xu	
HL-UG-7	H.Lu	M.Alvarez_Lopez	Machine learning on product review data for recommender systems (http://staffwww.dcs.shef.ac.uk/people/H.Lu/)	Zilong Tian	
JPB-UG-1	J.Barker	E.Vasilaki	Aerial photography change detection (http://staffwww.dcs.shef.ac.uk/people/J.Barker//project-year/ug-2018.html)	Jia Ng	CS/AI/Maths
JPB-UG-2a	J.Barker	F.Ciravegna	Vision system for chess-playing robot (http://staffwww.dcs.shef.ac.uk/people/J.Barker//project-year/ug-2018.html)	Lawrence Burvill	CS/AI/Maths
JPB-UG-2b	J.Barker	T.Hain	Vision system for chess-playing robot (http://staffwww.dcs.shef.ac.uk/people/J.Barker//project-year/ug-2018.html)	Gregory Ives	CS/AI/Maths
JPB-UG-3	J.Barker	E.Kavun	Hearing simulator for MIRO robot (http://staffwww.dcs.shef.ac.uk/people/J.Barker//project-year/ug-2018.html)	Thomas Croasdale	CS/AI/Maths
JPB-UG-4	J.Barker	M.Stevenson	Blink detection for web navigation (http://staffwww.dcs.shef.ac.uk/people/J.Barker//project-year/ug-2018.html)	Trisha Goel	CS/AI/Maths
JPB-UG-5	J.Barker	R.Gaizauskas	Face pixelation for video anonymization (http://staffwww.dcs.shef.ac.uk/people/J.Barker//project-year/ug-2018.html)	Georgica Bors	CS/AI/Maths
JPB-UG-8	J.Barker	E.Norling	Automate mask generation for Particle Image Velocimetry within the context of a Formula 1  Wind Tunnel	Daniel Reynolds	Student Proposed Project
JAC-UG-1	J.Clark	R.Gaizauskas	Cybersecurity Attack Discovery via AI	Harry Williams	
JARM-UG-2	J.Marshall	G.Struth	Online tool for collective decision-making	Zenan Chen	AI,ASE,CS
JRW-	J.Winkler	H.Cunningham	Wavelets for image deblurring	Pak Kei Lau	CS&Maths, AERO

UG-4					
KB-UG-1	K.Bogdanov	H.Cunningham	Sunlight exposure calculator	Aleksandr Ionin	CS/SE
KB-UG-2	K.Bogdanov	O.Olayinka	Ruby testing tool to help COM1001 students	Stefan Bondrea	CS/SE
KB-UG-3	K.Bogdanov	M.Alvarez_Lopez	Eclipse plugin for complex JUnit tests	Yejong Ryu	CS/SE
KB-UG-4	K.Bogdanov	J.Winkler	Automated visualisation of test sequences	Zhikang He	CS/SE
KB-UG-7	K.Bogdanov	E.Kavun	Flattening of statecharts	Malvin Todorov	CS/SE
KB-UG-8	K.Bogdanov	S.North	App to automatically obtain foot dimensions for a footwear company	Martin Kabyemela	CS/SE
MAA-UG-1	M.Alvarez_Lopez	K.Bogdanov	Parkinsonian gait analysis using Gaussian processes	Ximeng Chang	CS, AI&CS, CS&Maths
MAA-UG-4	M.Alvarez_Lopez	M.Mangan	Implementing machine learning techniques to improve automated segmentation of white matter lesions in medical brain images	Ravi Bir	CS, AI&CS, CS&Maths
MAA-UG-5	M.Alvarez_Lopez	A.Prescott	Implementing machine learning techniques to improve automated segmentation of the cerebellum in medical brain images	Patrick Ellis	CS, AI&CS, CS&Maths
MAA-UG-6	M.Alvarez_Lopez	S.North	Flat tasks management application	Mihai Tuchilus	Student Proposed Project
MRH-UG-1	M.Hepple	K.Bogdanov	Automatic Correction of Second Language English	Anamaria Sugar	
MRH-UG-2	M.Hepple	F.Ciravegna	Automatic Plagiarism Detection against Large Text Collections	Zihao Fu	
MRH-UG-4	M.Hepple	M.Villa-Uriol	Sentiment Detection and Tracking in Social Media Streams	Sonia Oyunga	
MRH-UG-5	M.Hepple	P.Peng	Event and Topic Detection in Social Media Streams	Nuraldeen Magid	
MRH-UG-9	M.Hepple	P.Oliveto	Automatic Multidocument Summarization of News	James Duguid	
MM-UG-3a	M.Mangan	P.McMinn	Insect Inspired Speed Sensing for Mobile Robots	. Simona	CS, SE, AI&CS, CS&Matths, AERO, BIO
MM-UG-3b	M.Mangan	A.Brucker	Insect Inspired Speed Sensing for Mobile Robots	Calvin St Louis	CS, SE, AI&CS, CS&Matths, AERO, BIO
MM-	M.Mangan	A.Stratton	Ant Navigation Challenge VR game	Jozsef Igali	CS, SE, AI&CS, CS&Matths,

UG-4					AERO, BIO
MPS-UG-1	M.Stannett	A.Brucker	Hexagonal Image Processing	Ovidiu Grec	Maths, CS, SE
MPS-UG-2	M.Stannett	M.Villa-Uriol	Putting the intelligence back into AI	Qi Ning	AI, CS, Maths
MPS-UG-3	M.Stannett	K.Bogdanov	Conflict between Trees - Starvation or Warfare?	Yixi Xiong	Bio, Maths, CS
MPS-UG-7	M.Stannett	T.Hain	Automatic Refinement of Z to Haskell	Sanziana-Ioana Chiorescu	Maths, CS
RMS-UG-1	M.Stevenson	R.Taylor	Categorising Song Genre by Analysing Lyrics	Hyun Han	CS, SE, AI&CS, CS&Maths
RMS-UG-2a	M.Stevenson	V.Lanfranchi	Build a Recommendation System	Daniel Solomon	CS, SE, AI&CS, CS&Maths
RMS-UG-2b	M.Stevenson	R.Gaizauskas	Build a Recommendation System	Sophia Bouchama	CS, SE, AI&CS, CS&Maths
RMS-UG-3	M.Stevenson	A.Prescott	Identifying Relevant Medical Research Papers	Simon Drake	CS, SE, AI&CS, CS&Maths
RMS-UG-4	M.Stevenson	M.Hepple	Take part in a data science competition	Mingyan Zeng	CS, SE, AI&CS, CS&Maths
RMS-UG-5	M.Stevenson	M.Stannett	Game AI for multiple Atari 2600 games using reinforcement learning with sensory input	Benediktas Kazanavicius	CS, SE, AI&CS, CS&Maths
RMS-UG-7	M.Stevenson	E.Norling	Classifying News Stories by Topic	Andrew Scott	CS, SE, AI&CS, CS&Maths
RMS-UG-8	M.Stevenson	S.North	Timeline generation	Da Eun Kim	
MCV-UG-1	M.Villa-Uriol	E.Norling	Medical algorithms repository	Fiyinfoluwa Akinradewo	CS,SE,AI,Biomed
MCV-UG-2	M.Villa-Uriol	R.K.Moore	Visual Data Analytics for Wearable Sensor Data	Pavel Pavlov	CS,SE,AI,Biomed
MCV-UG-4	M.Villa-Uriol	V.Lanfranchi	App using the Apple ResearchKit	Samuel Clowes	CS,SE,AI,Biomed
MCV-UG-5	M.Villa-Uriol	F.Ciravegna	App using the Apple CareKit	Catalin Mares	CS,SE,AI,Biomed
MCV-UG-7	M.Villa-Uriol	M.Alvarez_Lopez	Smart glasses aid for stroke patients	Merryn Taylor	CS,SE,AI,Biomed
MCV-	M.Villa-Uriol	T.Hain	Reducing Household Food Waste - iOS App	Arthur Granacher	Student Proposed Project

UG-8					
MCV-UG-9	M.Villa-Uriol	H.Lu	A Web Extension to Utilise Machine Learning to Reduce Distraction on the Internet	Jack Denny	Student Proposed Project
NW-UG-3a	N.Walkinshaw	G.Struth	Isochrone maps from bus timetables	Andrew Coldham	
NW-UG-3b	N.Walkinshaw	J.Barker	Isochrone maps from bus timetables	Shaowen Huang	
NW-UG-4a	N.Walkinshaw	E.Norling	Predicting congestions within the UK Rail Network	Charles Lee	
NW-UG-4b	N.Walkinshaw	M.Hepple	Predicting congestions within the UK Rail Network	Andrew Clark	
NW-UG-5	N.Walkinshaw	E.Vasilaki	Predicting Buggy Code Files from their Interconnectivity	Vincent Ko	
NW-UG-6	N.Walkinshaw	A.Simons	A Subjective Logic Implementation	Joshua Oluwatosin	
OO-UG-1	O.Olayinka	F.Ciravegna	Visualizing Locations of Social Groups Using Social Networks For Crime Analysis	Daniel Bacon	
PSM-UG-1	P.McMinn	A.Prescott	Testing Computer Games with Artificial Neural Networks and Reinforcement Learning (http://mcminn.io/projects/)	Richard Bound	CS/SE/AI&CS
PSM-UG-2	P.McMinn	A.Simons	Automated Bug-Fixing of Website Layouts (http://mcminn.io/projects/)	Matthew Watt	CS/SE/AI&CS
PSM-UG-3	P.McMinn	J.Winkler	Automated Detection of Accessibility Issues in Websites (http://mcminn.io/projects/)	Michael Gritzmacher	CS/SE/AI&CS
PSM-UG-4	P.McMinn	P.Peng	Animating Search-Based Optimisation Algorithms in the AVMf (http://mcminn.io/projects/)	Ben Scott	CS/SE/AI&CS
PSM-UG-5	P.McMinn	K.Bogdanov	Visualisation of Database Tests (http://mcminn.io/projects/)	Benjamin Halliwell	CS/SE/AI&CS
PSM-UG-7	P.McMinn	N.Walkinshaw	Create Your Own Business (http://mcminn.io/projects/)	Thomas Strathern	ITMB
PSM-UG-8	P.McMinn	R.Gaizauskas	Automatic grading web app	John Ayad	Student Proposed Project
PO-UG-1	P.Oliveto	A.Stratton	Evaluating the performance of artificial immune systems	Omar Gelbaya	
PO-UG-2	P.Oliveto	J.Winkler	Evaluating the performance of hyper-heuristics	Haider Rasool	
PP-	P.Peng	J.Winkler	Implementation of Local Graph Clustering Algorithms	Husain Ahmed	CS, SE, AI&CS, CS&Maths

UG-3				Maki Tammam	
PP-UG-4	P.Peng	J.Barker	Fast Computation of Betweenness Centrality in Networks	Milan Tancak	CS, SE, AI&CS, CS&Maths, BIO
PP-UG-5	P.Peng	M.Hepple	Improving methods used to accurately cluster nodes in a dynamic network	Lewis Jackson-Mcketty	
PP-UG-6	P.Peng	M.Alvarez_Lopez	Implementation and evaluation of a Java development to predict the FTSE 100 stock market	Samuel Turner	
PW-UG-3	P.Watton	P.McMinn	Computational Modelling of myocardial Infarction	Fatma Civisilli	CS/AI&CS/CS&Maths/Aero/BIO
PW-UG-6	P.Watton	V.Lanfranchi	Modelling cerebral vasospasm and its treatment with stents	Anna John	CS/AI&CS/CS&Maths/Aero/BIO
PW-UG-8	P.Watton	R.Gaizauskas	Surgical aortic valve replacement recovery monitoring application	William Redwood	Student Proposed Project
RJG-UG-1	R.Gaizauskas	E.Vasilaki	Aspect-based Sentiment Analysis (http://staffwww.dcs.shef.ac.uk/people/R.Gaizauskas/teach/3yrproj/ugproj-rjg-1819.html)	Alexandra Butoi	
RJG-UG-4	R.Gaizauskas	P.McMinn	Size Matters: Acquiring Vague Spatial Size Information from Textual Sources (http://staffwww.dcs.shef.ac.uk/people/R.Gaizauskas/teach/3yrproj/ugproj-rjg-1819.html)	Benjamin Egelton	
RJG-UG-12a	R.Gaizauskas	D.Walker	Building an Amazon Skill for DCS (http://staffwww.dcs.shef.ac.uk/people/R.Gaizauskas/teach/3yrproj/ugproj-rjg-1819.html)	Leon Singleton	
RJG-UG-12b	R.Gaizauskas	R.Taylor	Building an Amazon Skill for DCS (http://staffwww.dcs.shef.ac.uk/people/R.Gaizauskas/teach/3yrproj/ugproj-rjg-1819.html)	David Colam	
RJG-UG-12c	R.Gaizauskas	J.Barker	Building an Amazon Skill for DCS (http://staffwww.dcs.shef.ac.uk/people/R.Gaizauskas/teach/3yrproj/ugproj-rjg-1819.html)	Charles Jewers	
RJG-UG-13	R.Gaizauskas	P.Watton	Using Markov Logic Networks for Abductive Reasoning in Text Interpretation	Sebastian Ksiazczyk	
RKM-UG-1a	R.K.Moore	N.Walkinshaw	Build an Alexa 'Skill' for Amazon Echo	Andreas Papakonstantinou	CS, SE, AI&CS, ITMB
RKM-UG-1b	R.K.Moore	A.Prescott	Build an Alexa 'Skill' for Amazon Echo	Giuseppe Picciano	CS, SE, AI&CS, ITMB
RKM-UG-1c	R.K.Moore	A.Prescott	Build an Alexa 'Skill' for Amazon Echo	Oliver Wardell-Yerburgh	CS, SE, AI&CS, ITMB
RKM-UG-5	R.K.Moore	P.Watton	Expressive Vocalisation	Thomas Anderson	CS, SE, AI&CS, CS&Maths, BIO

RKM-UG-7	R.K.Moore	J.Winkler	Usage of Speech Technology Systems	Yoonji Kim	ITMB
RKM-UG-9	R.K.Moore	R.Gaizauskas	Comparison of simulated quadruped locomotion to the Dynamic Similarity Hypothesis	Damian Bemben	Student Proposed Project
RGT-UG-1	R.Taylor	P.Peng	Metallic and Electronic Physical Security	Joshua Curtis	
RGT-UG-3	R.Taylor	M.Alvarez_Lopez	Blockchain Solutions for Buildings	George Knifton	
RGT-UG-5	R.Taylor	T.Hain	Detecting and Analysing Sensor Faults in Large Networks	David Coelho	
RGT-UG-6	R.Taylor	D.Walker	Cell Culture Tracking With Image Processing	Hannah Law	
RGT-UG-9	R.Taylor	E.Norling	Intelligent Building	Rebecca Fudge	
SDN-UG-1	S.North	S.Ordyniak	Managing the Extenuating Circumstances Process	Rushil Shah	CS, SE and AI&CS only
SDN-UG-3a	S.North	M.Stannett	A Time Traveller's Map	Oliver Rahman	CS, SE and AI&CS only
SDN-UG-3b	S.North	R.K.Moore	A Time Traveller's Map	James Mason	CS, SE and AI&CS only
SDN-UG-5	S.North	H.Christensen	Build a better MOLE for staff	Hon Tang	CS, SE and AI&CS only
SO-UG-2	S.Ordyniak	S.North	Comparative survey of existing fixed-parameter tractable Vertex Cover algorithms and their implementation	Tymon Solecki	CS, SE, AI&CS, CS&Math
SO-UG-4	S.Ordyniak	H.Cunningham	Development of a Software Tool to Compute the Treedepth of a Graph	Uddhav Agarwal	CS, SE, CS&Math, AI&CS
SO-UG-5	S.Ordyniak	R.Taylor	Anyone Can Build a Website	Maximillian Monkman	Student Propsed
SO-UG-6	S.Ordyniak	M.Alvarez_Lopez	TBC	Stephen Cartwright	
TH-UG-1	T.Hain	R.Gaizauskas	A personal document management system	Huzaifa Ahmed	
VL-UG-2	V.Lanfranchi	H.Christensen	Health Diary App	Keerthana Ganesh	CS/SE/AI&CS
VL-UG-3	V.Lanfranchi	M.Hepple	An accessible/user friendly self-monitoring interface for visually impaired and blind patients with diabetes	Leto Riebel	CS/SE/AI&CS/ITMB

VL-UG-5	V.Lanfranchi	D.Walker	Progressive Web App for fitness data collection and analysis	James Cotcher	Student Proposed Project
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Available Projects

Note: Aerospace and BioMedical students may only select projects marked as such in the 'Suitable for' column. Other students may also select these projects (unless they say e.g. 'Aerospace only'), but Aerospace/BioMedical students have first preference.

Code	Supervisor	Working title	Suitable for
TJP-UG-3b	A.Prescott	Telepresence immersion in an animal-like robot	CS, SE, AI&CS
EJN-UG-1	E.Norling	Agent-based models of trust and reputation	CS, CS&AI, SE, CS&Maths
JARM-UG-1	J.Marshall	Uncommitted robots in collective decisions	AI,CS
JRW-UG-1	J.Winkler	Hanning window for smoothing the edges of an image	CS,CS&Maths,AERO
JRW-UG-2	J.Winkler	Cepstrum analysis for the estimate of motion blur	CS&Maths
JRW-UG-3	J.Winkler	Segmentation and feature detection	CS,SE,AI&CS,CS&Maths,AERO
JRW-UG-5	J.Winkler	Resultant matrices	CS&Maths
JRW-UG-6	J.Winkler	Edge detection in images	CS,CS&Maths, AERO
MRH-UG-3	M.Hepple	Efficient Analysis of Textual Data using Randomised Methods	
MRH-UG-6	M.Hepple	Unsupervised Discovery of Word Morphology	
MRH-UG-7	M.Hepple	Handling Unknown Words in Part-of-Speech Tagging	
MRH-UG-8	M.Hepple	Automated Recognition of Dialogue Acts	
MRH-UG-10	M.Hepple	A Transformation-based Learning Tool in Python	
OO-UG-2	O.Olayinka	TBC	
PP-UG-1	P.Peng	Sampling an Edge from a Large Network	CS, SE, AI&CS, CS&Maths
PP-UG-2	P.Peng	Estimating the Number of Users in a Social Network	CS, SE, AI&CS, CS&Maths
RJG-UG-14	R.Gaizauskas	Information Extraction from the Financial Media	Student Proposed Project
RGT-UG-2	R.Taylor	A Combined Clean Room Monitoring System	
RGT-UG-7	R.Taylor	Static Analysis of Smart Contracts	
RGT-UG-8	R.Taylor	Augmented Reality Tagging of Building and Maintenance Information	
SDN-UG-7	S.North	Real World Project to improve inefficient data handling	Student Proposed Project
SO-UG-1	S.Ordyniak	Implement and Develop Algorithms for Finding Balanced Separators in a Graph	CS, AI&CS, CS&Math, SE
SO-UG-3	S.Ordyniak	Implementation and Development of Algorithms for the Fracture Number problem	CS, SE, AI&CS, CS&Math

TH-UG-2	T.Hain	TBC	
TH-UG-3	T.Hain	TBC	

Unallocated students

Allocations by supervisor

R.Taylor 5, M.Stevenson 8, M.Hepple 5, R.Gaizauskas 6, E.Norling 7, E.Kavun 6, O.Olayinka 1, P.Peng 4, A.Simons 5, A.Stratton 4, M.Mangan 3, A.Prescott 6, J.Winkler 1, P.Watton 3, H.Christensen 8, K.Bogdanov 6, H.Cunningham 1, S.Ordyniak 4, S.North 4, P.McMinn 7, J.Barker 7, H.Lu 5, J.Marshall 1, J.Clark 1, G.Struth 7, M.Alvarez_Lopez 4, P.Oliveto 2, E.Vasilaki 5, M.Stannett 4, V.Lanfranchi 3, A.Brucker 9, N.Walkinshaw 6, D.Walker 5, R.K.Moore 6, F.Ciravegna 7, M.Villa-Uriol 7, T.Hain 1,

Allocations by Second marker

R.Taylor 5, M.Hepple 5, M.Stevenson 6, R.Gaizauskas 7, E.Norling 6, E.Kavun 4, O.Olayinka 4, P.Peng 4, A.Simons 6, A.Stratton 3, M.Mangan 3, A.Prescott 5, J.Winkler 7, P.Watton 5, H.Christensen 5, K.Bogdanov 7, H.Cunningham 5, S.North 5, P.McMinn 4, S.Ordyniak 3, J.Barker 5, H.Lu 4, G.Struth 5, M.Alvarez_Lopez 6, P.Oliveto 2, E.Vasilaki 7, M.Stannett 6, V.Lanfranchi 3, A.Brucker 3, N.Walkinshaw 6, R.K.Moore 4, D.Walker 5, F.Ciravegna 7, M.Villa-Uriol 5, T.Hain 7,