Welcome to...

The University of Kent

School of Computing
School of Computing@Medway
Staff

Dr Fernando Otero
Dr Michael Kampouridis
Dr Palani Ramaswamy
Dr Anna Jordanous
Dr Yang He
Dr Caroline Li
Dr Srivas Chennu
Janine Jarvis
Room M3-30
Dr Matteo Migliavacca
Professor Ian McLoughlin

NOT SHOWN: part time lecturers, assistant lecturers, administrators & technicians in Canterbury
Research Fellows, PhD students, Research Assistants (in Medway and Canterbury)
The Main Locations

- Historic Dockyard
- Pilkington Building
- Drill Hall Library
- Gillingham Building
- Medway Building
You Made a Good Choice

Your University

• **mock Teaching Excellence Framework (TEF)**
  Ranked 5th out of 120 UK universities by Times Higher Education (THE), June 2016.
• **Good University Guide 2016**
  23rd out of 127 HE institutions
  5th in the South East
  Nominated for *University of the Year* Award
• **The Guardian University Guide 2017**
  Ranked 23rd out of 119 HE institutions
  Kent is ranked 5th in the South East Region
  Achieved a top 10 position in 9 subject areas

Your School of Computing

• **REF 2014 – Research Excellence Framework 2014**
  17th in UK for Research Intensity
  97% of our research is international quality
  Outperformed 11 of the 24 Russell Group universities for research intensity

• **Good University Guide 2016**
  Ranked 12th for graduate prospects
• **Guardian University Guide 2017**
  Ranked in the top 25% of 102 HE institutions for COMP/CS/BIT
  Ranked 3rd for graduate prospects
  Ranked in top 25% of 102 HE institutions for staff/student ratio
Learn About Our Research (1/3)

**Professor Ian McLoughlin**

http://www.mcloughlin.eu

Professor McLoughlin’s past projects include Bionic Voice (speech replacement for patients who can’t speak properly, e.g. after an operation), smart homes, and machine hearing. He is currently working on projects to help care for elderly people as well as people with dementia. He has published over 150 refereed papers, 4 books and has 15 patents. His areas of speciality are speech/audio/hearing and embedded systems.

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**Dr Palani Ramaswamy**

https://sites.google.com/site/rpalanisenth

Dr Ramaswamy harnesses brain-computer interfaces (BCI) for biometrics and control for paralysed people, has designed advanced stimuli design for BCI paradigms, and worked on attention-based processing, and memory impairment using electro-physiological data. He is an expert at signal processing and machine learning for EEG, ECG and other signals, and has had a number of health/assistive technology projects such as investigating consciousness, improving mental state through music/meditation and emotion processing in Parkinson patients. With over 150 peer-reviewed papers and over 2000 citations, his work has resulted in many international accolades and receives wide attention, both from the academia and public.

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**Dr Matteo Migliavacca**

https://www.cs.kent.ac.uk/people/staff/mm53

Recent winner of an EPSRC research grant on transaction and stream processing, Dr Migliavacca’s research focuses on large scale data processing architectures, including stream processing, with applications in domains such as business analytics, recommendations systems, fraud detection, e-health and Internet of Things. Dr Migliavacca’s research interests span performance, reliability, security and programming abstractions in distributed, networked systems and cloud environments.
Learn About Our Research (2/3)

Dr Caroline Li (Li Ling)
https://www.cs.kent.ac.uk/research/bc2

Founder of the BC2 (Brain | Cognition | Computing) lab linking between Computing, Sports and local NHS. Awarded grants on mental fatigue & epilepsy with industry project on eHealth & personalised healthcare. She has extensive experience in using machine learning methods to understand biomedical data for applications such as EEG-based neuro-markers for brain diseases, EMG-controlled robotics, ECG pattern extraction, and human motion analysis.

Dr Fernando Otero
https://www.cs.kent.ac.uk/people/staff/febo

Dr Otero's research interests include biologically inspired algorithms (mainly genetic programming and ant colony optimization), bioinformatics and data mining. He is an expert in applying ant colony optimization algorithms for classification and clustering in data mining. This includes applications in areas such as gene expression data analysis and stock market trend prediction. He is currently working on projects to improve the search of geometric semantic genetic programming, large-scale data mining and classification of data streams.

Dr Michael Kampouridis
https://www.cs.kent.ac.uk/people/staff/mk451

Dr Kampouridis uses machine learning algorithms for tackling problems from the fields of business, economics and finance. He has done extensive work in the field of financial forecasting and algorithmic trading and is also currently working in the domain of weather derivatives. Dr Kampouridis has also worked on industrial collaborations, such as designing an intelligent economic model for British Telecoms (BT), to act as a decision support tool for the deployment of fibre optic networks.
Learn About Our Research (3/3)

**Dr Anna Jordanous**
https://www.cs.kent.ac.uk/people/staff/akj22

Dr Anna Jordanous works on computational creativity - the modelling, simulation or replication of creative activities and behaviour using computational means. As well as writing creative software to improvise music, Dr Jordanous has devised a standardised procedure for evaluating creative systems. She also uses music information retrieval and natural language processing in her work.

**Dr Srivas Chennu**
https://www.cs.kent.ac.uk/people/staff/sc785

Dr. Chennu develops computational tools for studying the human brain, and the neural networks that support consciousness. This research, funded by the Evelyn Trust and the NIHR, is improving diagnosis and prognosis for patients in vegetative states. He has shown that machine learning can be used to detect awareness in patients at their bedside. He also develops brain-computer interfaces. His research has received public and media interest from BBC Radio 4 Today, Discovery Channel, Wired, and New Scientist.

You will **see us on the TV** (e.g. Discovery Channel, ABC News, MSBN, CCTV news), hear us **on the Radio** (e.g. BBC Radio 4, Radio Essex, Kent Radio), see us **quoted in newspapers** (e.g. Daily Mail, Daily Telegraph, Straits Times), read our **articles in magazines** (e.g. New Scientist, Consumer Electronics magazine), see our **books in the library** (look in the Drill Hall), and read our stories **online** (e.g. The Conversation, Wired, Nature, Yahoo News).
# Welcome Week: what to expect

## Medway Welcome Week Timetable 2016

**BSc Computing (COMPUTING)**  
**BSc Business Information Technology (BIT)**  

<table>
<thead>
<tr>
<th>Saturday 17th – Sunday 18th Sept 2016</th>
<th>Monday 19th Sept</th>
<th>Tuesday 20th Sept</th>
<th>Wednesday 21st Sept</th>
<th>Thursday 22nd Sept</th>
<th>Fri 23rd Sept</th>
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</table>
| 9:30 till 3:30pm Registration in Pilkington | 12:30-1:00pm Masters Welcome  
The Church Lecture Theatre – Historic Dockyard  
*Followed by:*  
1.00 – 2.00  
Fresher’s Welcome BBQ  
Rochester Building Lawn | 10:00-10:50am *Academic Adviser System Yang He  
11:00-11:20am *Safety & Security Angela Doe  
11:20-11:30am *Placement Sian Robson  
12:00-1:30pm *Team Activity & Buffet Lunch  
All of the above in M3-04 | 10:00-10:30am *Student Learning Advisory Service (SLAS) Alan Le Grys  
10:30-11:30pm *Student Support & Wellbeing Services Careers Volunteering Lynne Regan & David Coldwell M3-04 | 10:00-10:50am *How to be successful Ian McLoughlin M3-04  
11:00-11:50pm *School Computing Facilities Fernando Otero M3-04 | 11.00am – 12:00pm International Student Welcome Talk Dockyard Church Lecture Theatre  
12.00pm – 1.30pm International Student Global Hangout and Lunch No. 1 Bistro |
| **International students must make an appointment in Canterbury to register with the police on Monday or Wednesday. They can take the shuttle bus to the Canterbury Campus** | 2:00-3:00pm *Welcome to School of Computing Ian McLoughlin M3-04 | 1:30 – 2:30pm *Academic Adviser Meeting A1 (Anna) M2-04  
A2 (Palani) G2-04  
A3 (Fernando) M2-05  
A4 (Michael) M2-28  
A5 (Caroline) M2-29  
A6 (Matteo) G3-05  
A7 (Ian) M1-22  
A8 (Srivas) G4-11  
3:00-4:00pm Drill Hall Library Tour | 11.00 - 3.00pm Freshers' Fair Student Hub and Sports Hall | 2:00-4:00pm *Computing Practical Class  
Group 1 G4-04  
Supervisor tbc  
Group 2 G4-05  
Supervisor tbc  
Group 3 M3-28  
Supervisor tbc | |

Key: * All students must attend the events organized by the School of Computing.  
Events are held in the Medway Building (M), Gillingham Building (G), Pilkington Building (PK) or Drill Hall Library (DA).
Brief overview of your programme

Programme structure

<table>
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<tr>
<th>Stage 1</th>
<th>Stage 2</th>
<th>Stage 3</th>
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<tbody>
<tr>
<td>Fixed modules</td>
<td>Fixed modules</td>
<td>Optional Modules</td>
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<tr>
<th>Stage 1</th>
<th>Stage 2</th>
<th>Stage 3</th>
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</thead>
<tbody>
<tr>
<td>Fixed modules</td>
<td>Fixed modules</td>
<td>Year-in-industry (placement)</td>
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Modules are at levels 3, 5, 6/7/8 and your handbook will explain that you need enough of the higher level modules to graduate.

Modules usually have 15 credits (some are 30), with each credit representing ~10 hours of work, including contact time and self study. Each stage comprises 120 credits.

So the average student is expected to do approximately 1200 hours study. This is equivalent to 30 weeks at 40hrs/week.

Your overall degree classification is weighted towards your final year results.
Brief overview of your programme

Teaching & Learning

Lectures
Classes
Seminars
Practicals
Self study
Reading
Completing exercises
Course work

We expect you to attend all of these. Your attendance will be recorded.
### Brief overview of your programme

The structure of an academic year

<table>
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<tr>
<th>Weeks:</th>
<th>1</th>
<th>12</th>
<th>13</th>
<th>24</th>
<th>25</th>
<th>30</th>
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<tbody>
<tr>
<td><strong>Autumn term</strong></td>
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<tr>
<td><strong>Spring term</strong></td>
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<tr>
<td><strong>Summer term</strong></td>
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<tr>
<td><strong>Sept</strong></td>
<td><strong>Dec</strong></td>
<td><strong>Jan</strong></td>
<td><strong>Apr</strong></td>
<td><strong>May</strong></td>
<td><strong>June</strong></td>
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**Notes:**
- Each term lasts for 12 weeks.
- There is 1 project week in each term (wks 6 & 21); you'll have UNIX class then.
- Don't expect to take any holiday during term time, as this university doesn't have any half-term holidays.
- Exams are held during the summer term.
Brief overview of your programme
The modules in Stage 1

**COMPUTING & BIT**
- Co320  Introduction to Object Oriented Programming
- Co322  Foundations of Computing 1
- Co324  Computer Systems
- Co328  Human Computer Interaction

**COMPUTING**
- Co329  Computer Applications
- Co520  Further Object Oriented Programming

**BIT**
- Cb366  Management Principles
- Cb371  Marketing Principles

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**Autumn Term**

**Spring Term**
Brief overview of your programme

Student Support

We provide a lot of support to students apart from the lecture/class/seminar support that is provided as part of each teaching module. You will hear more about the following in the other talks this week:

- Academic advisor system
- Computing workshops
- Student learning advisory service (SLAS)  
  (including help on maths, statistics, study skills, report writing etc.)

The information for your taught modules comes through the Moodle pages. You should be already set up already to access all of the correct modules on Moodle.

Always check for updated information on each module in Moodle at least weekly.

We will also email you occasionally with important information. This is how we get hold of you to communicate things. Forgetting to check your email is no excuse.
Around 75% of students go on placement in their third year. They put their newly-learned skills into practice.

They also get
- real experience
- real salary
- usually a better stage 3 result!

IBM, Cisco, Intel, BT, Lilly, Pfizer, Disney, Kent Police, Accenture, HSBC, Kent County Council … many others.

You can opt in or opt out from this. BUT you will need to decide by the end of Stage 1, then complete Transfer Programme form and hand in to Janine (for Yang to approve).
Transfer between programmes

To gain entry to university, students must:

- Satisfy the university’s general entry requirements (GER)
  
e.g. passes in the equivalent of 2 GCE A level subjects plus GCSE English at least at grade C or equivalent
- Satisfied the programme’s required entry tariff (which is higher)

For BIT and Computing, entrants must have achieved the equivalent of 320 UCAS points and at least have GCSE Maths grade C on entry. In practice some of our students have achieved a lot more than this, some did not (but got a place by impressing us in other ways).

Targets & capacity

- Current position: over-full
Transfer between programmes

If you would like to transfer

1. Check that you satisfy the desired programme entry criteria (consult prospectus or website)
2. Contact the Director of Studies of the desired programme (refer to school for this information) to determine whether they have places available and is willing to accept you.

Note: At Canterbury:
- **BA Economics** – ABB (320 pts), B GCSE Maths
- **BA Accounting and Finance** – 320 pts, B GCSE Maths
- **BBA Business Administration** – 320 pts, C GCSE Maths

At Medway:
- **BA Business and Management** – 300pts, C GCSE Maths
- **BA Accounting and Management** – 300pts, B GCSE Maths

*Each of the above are from best 3 A levels with at least grade B in each subject*
Transfer between programmes

Within the School of Computing, all of our programmes are full.

1. Transfer between BIT/Computing and Computer Science - not possible
2. From Computing to BIT - not possible
3. From BIT to Computing - will consider for good students with a good reason (email me to discuss BEFORE Friday this week)

To transfer from 3 to 4 year programme (or vice versa); complete a Transfer Form that you can obtain from Janine (M3-30)
Our Expectations of You

University is like an exclusive fitness club... but for the mind.
Our Expectations of You

Attend the lectures - many are delivered by world-renowned experts

Attend the classes - these will give you the hands-on skills needed in industry

Read your emails (from us) and check Moodle regularly

Do the self-study, use the library, put in enough effort

Hand in your work on time, and make sure it is your work

Talk to us (lecturer/academic advisor/Janine/Yang) if you have problems

Be engaged with your studies, take responsibility for your work
Where we are headed with all this

In 3 (or 4) years time, we hope and expect that you will be turning up at Rochester Cathedral to proudly receive your well-deserved BSc degree.

But like anything good, you'll need to do your part and work hard to earn it.
# Planning for the next 2 weeks

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td><strong>Tuesday 20&lt;sup&gt;th&lt;/sup&gt; Sept</strong></td>
<td>Get to M3-04 by 10am  &lt;br&gt;Lunch will be provided  &lt;br&gt;Day ends at 4pm</td>
</tr>
<tr>
<td><strong>Wednesday 21&lt;sup&gt;st&lt;/sup&gt; Sept</strong></td>
<td>Get to M3-04 by 10am  &lt;br&gt;Freshers Fair from 11am-3pm</td>
</tr>
<tr>
<td><strong>Thursday 22&lt;sup&gt;nd&lt;/sup&gt; Sept</strong></td>
<td>Get to M3-04 by 10am  &lt;br&gt;Day ends at 4pm</td>
</tr>
<tr>
<td><strong>Friday 23&lt;sup&gt;rd&lt;/sup&gt; Sept</strong></td>
<td><strong>International students only – PK130 at 11am</strong></td>
</tr>
<tr>
<td><strong>Monday 26&lt;sup&gt;th&lt;/sup&gt; Sept</strong></td>
<td>2pm-4pm <strong>Co320 lecture (Introduction to Object-Oriented Programming)</strong> in PK130</td>
</tr>
<tr>
<td><strong>Tuesday 27&lt;sup&gt;th&lt;/sup&gt; Sept</strong></td>
<td>Revision time !!?!?</td>
</tr>
<tr>
<td><strong>Wednesday 28&lt;sup&gt;th&lt;/sup&gt; Sept</strong></td>
<td>9am-11am <strong>Co324 lecture (Computer Systems)</strong>, PK130</td>
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<tr>
<td><strong>Thursday 29&lt;sup&gt;th&lt;/sup&gt; Sept</strong></td>
<td>11am-1pm <strong>Co322 lecture (Foundations of Computing I)</strong>, PK130</td>
</tr>
<tr>
<td><strong>Friday 30&lt;sup&gt;th&lt;/sup&gt; Sept</strong></td>
<td>9am-11am <strong>Co328 lecture (Human Computer Interaction)</strong>, PK130</td>
</tr>
</tbody>
</table>

Classes for most modules start in Week 2 – check your individual timetables on SDS