



NGCM Summer Academy

Organised by the
EPSRC CDT in NGCM
University of Southampton

EPSRC

Engineering and Physical Sciences
Research Council

What is EPSRC CDT in NGCM?

- EPSRC (Engineering and Physical Sciences Research Council)
- CDT (Centre for Doctoral Training)
- NGCM (Next Generation Computational Modelling)
- See <http://ngcm.soton.ac.uk> and <http://ngcm.soton.ac.uk/blog>

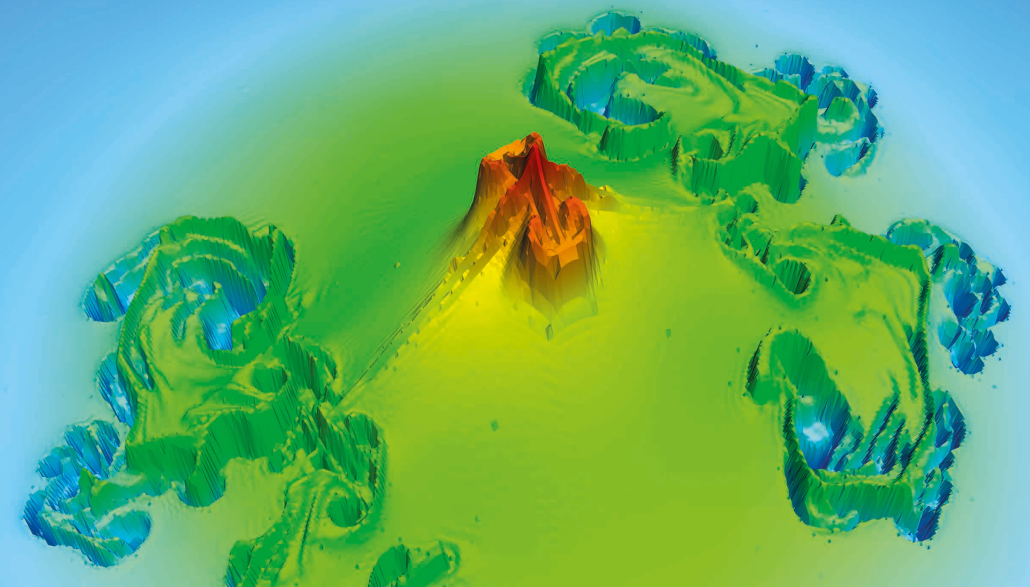
Develop the
future of simulation.
Next Generation
Computational
Modelling

- high performance computing
- state-of-the-art simulation methods
- research code development
- robust software engineering
- applications with impact

Join us at the EPSRC Centre for Doctoral Training
in Next Generation Computational Modelling

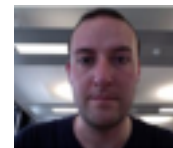
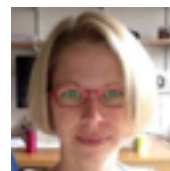
Contact: ngcm@soton.ac.uk

www.ngcm.soton.ac.uk

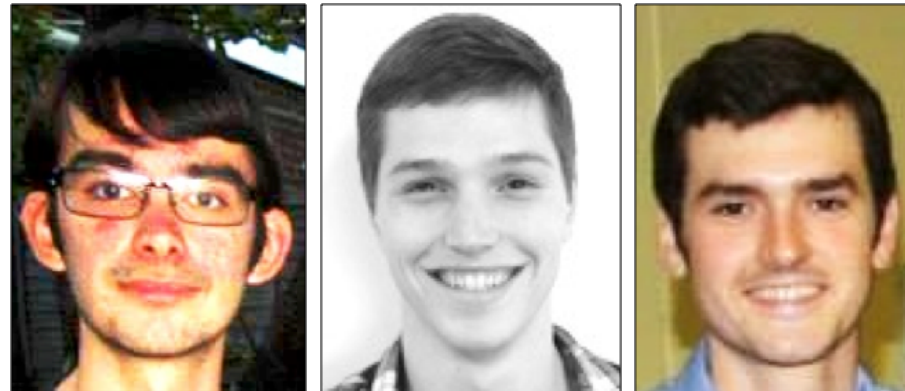


Key people

- NGCM directors:
 - Hans Fangohr
 - Ian Hawke
 - Peter Horak
- NGCM Manager
 - Susanne Ufermann
- Conference staff (also IT)
 - Marijan Beg
 - Maximilian Albert



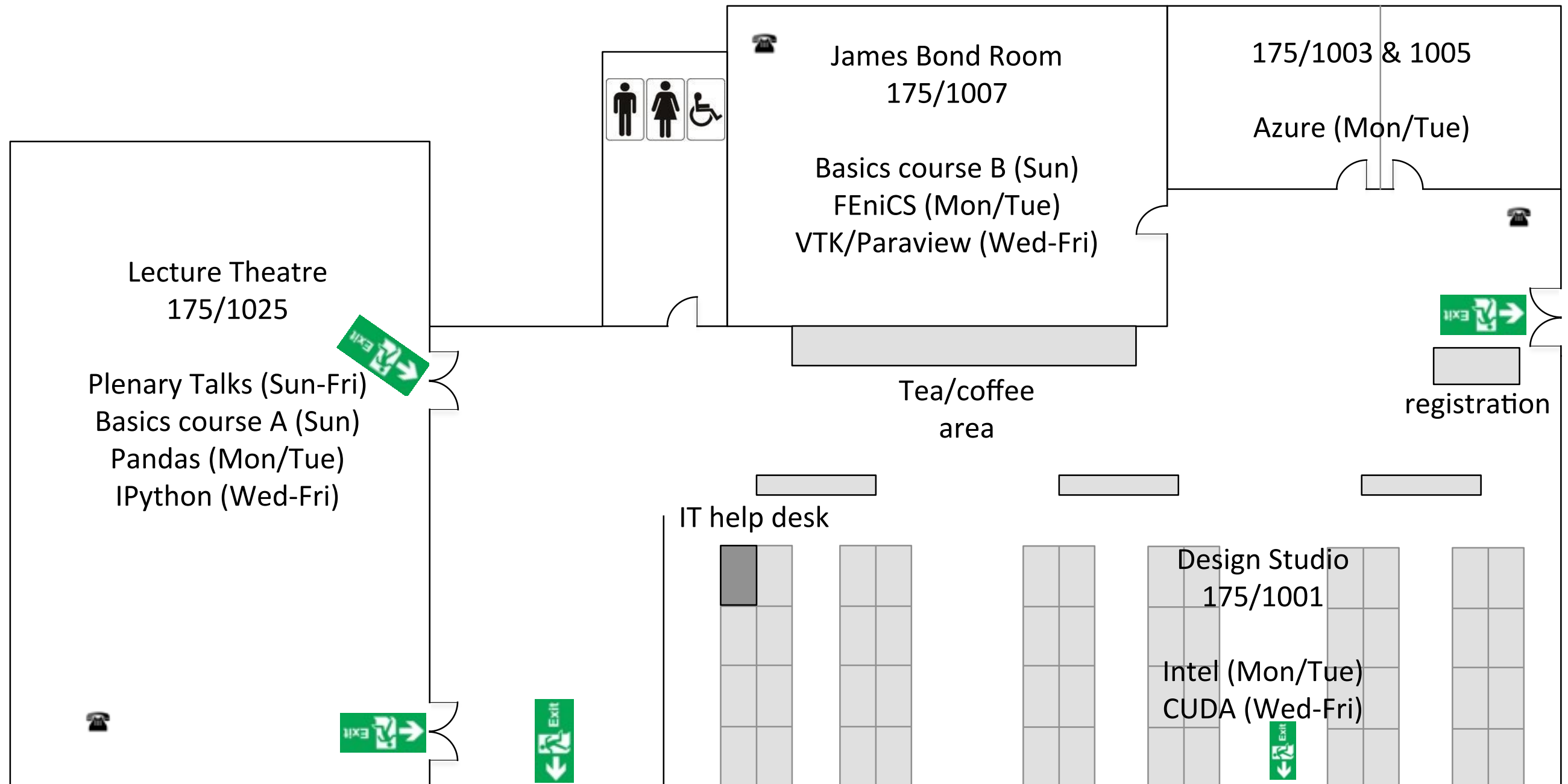
NGCM students



NGCM Summer Academy

NGCM Summer Academy courses 21 - 26 June 2015				
Sunday 21/6/2015	Basics - Introduction to Python, version control and testing			
Monday 22/06/2015	Pandas Python library for data handling	Azure Cloud Computing	Programming the Intel Xeon Phi	Fenics and dolfin multi physics finite element suite
Tuesday 23/06/2015				
Wednesday 24/06/2015	IPython Notebook	GPU programming using CUDA	VTK and Paraview	
Thursday 25/06/2015				
Friday 26/06/2015				

Rooms



Health and Safety

- toilets
(in 175/1001, and corridor)
- no opening of doors in 1001
- emergency phone number
3311
- disabled access



Smoking and fire alarms

- fire alarms tested Thursday morning
- fire exits
- smoking location (bottom of stairs outside 176)



Electrical hazards

- Do not use equipment with damaged cables



Trip hazards

- laptop power cables
- keep flat on ground
- no cables hanging between desks
- be aware of cables when getting up and walking around



Online tools

- Etherpad example:
<https://etherpad.mozilla.org/hQ6INSI22u>
- Slack at <http://ngcmsummeracademy2015.slack.com>
- Tweets @NGCM_Soton,
#NGCMSummerAcademy
- <http://ngcm.soton.ac.uk/summer-academy/index.html>
- Photography and video interviews



Helpdesk

IT HELP

- Helpdesk supported by Maximilian Albert and Marijan Beg
- Staffed where possible during breaks
- Use slack #helpdesk to ask questions
- Internet access through “eduroam”

Maximilian Albert

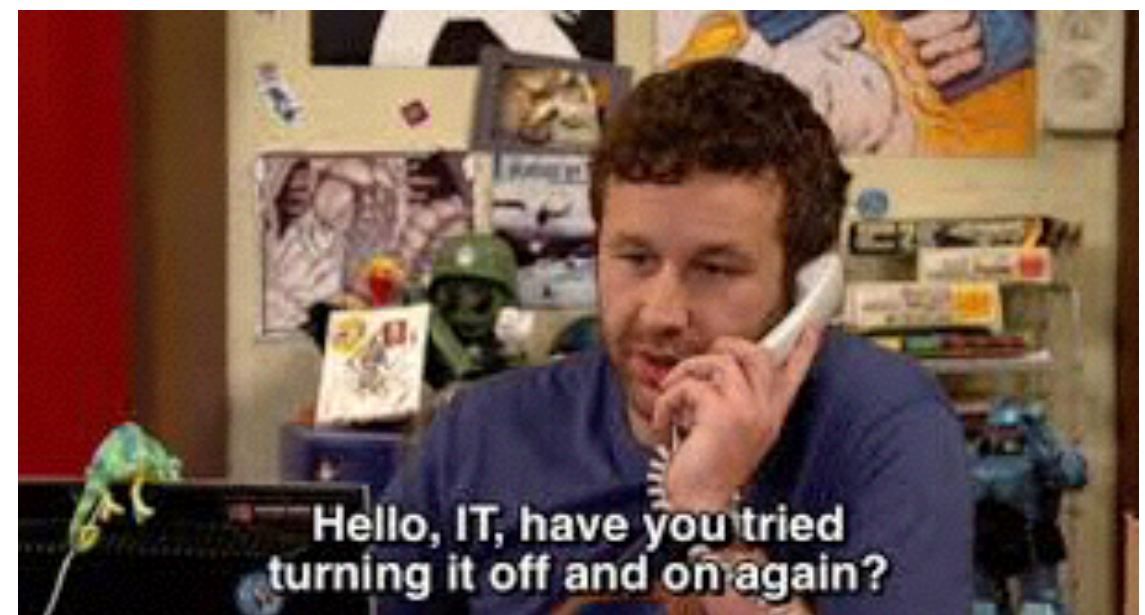


slack: @maxalbert
mob: 07952002635
location: 175/1025

Marijan Beg



slack: @marijanbeg
mob: 07547966857
location: 175/1007



Programme

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 – 9:30	Welcome – Hans Fangohr & computer setup	Welcome – PVC Judith Petts, Hans Fangohr	Pandas – Chris Fonnesebeck/Skipper Seabold	Intel Phi – Adrian Jackson	CUDA – Anthony Morse	VTK/Paraview – Jerome Velut
9:30 – 11:00	Basics	Teaching Block 1				
		FEniCS/Intel Phi/Pandas/Azure		VTK Paraview/CUDA/IPython		
11:00 – 11:30		Tea/Coffee break (175/1001)				
11:30 – 13:00	Basics	Teaching Block 2				
		FEniCS/Intel Phi/Pandas/Azure		VTK Paraview/CUDA/IPython		
13:00 – 14:00		Lunch break (176/2013)				
14:00 – 14:30	Basics	Kenji Takeda – Azure	FEniCS – Marie Rognes	Software Sustainability Institute – Simon Hettrick	IPython – Fernando Perez	Closing – Hans Fangohr
14:30 – 15:30		Teaching Block 3				
		FEniCS/Intel Phi/Pandas/Azure		VTK Paraview/CUDA/IPython		
15:30 – 16:00		Tea/Coffee break (175/1001)				
16:00 – 17:30	Basics	Teaching Block 4				
		FEniCS/Intel Phi/Pandas/Azure		VTK Paraview/CUDA/IPython		
18:00-20:00		Pizza & Q&A				

Schedule

- 9:00 Plenary lecture 1 (30 minutes)
- 9:30 - 11:00 Training session 1 (90 minutes)
- 11:00 Break (30 minutes)
- 11:30 - 13:00 Training session 2 (90 minutes)
- 13:00 - 14:00 Lunch Break (60 minutes, upstairs)
- 14:00 - 14:30 Plenary Lecture 2
- 14:30 - 15:30 Training session 3 (60 minutes)
- 15:30 - 16:00 Break (30 minutes)
- 16:00 - 17:30 Training session 4 (90 minutes)

Posters and poster session

- are displayed in 176/2013 (lunch)
- attach poster to posterboard during Monday (boards should be ready by 11am)
- velcro stickers attached to name badge
- remove posters again Friday afternoon
- Wednesday 13 - 14 is dedicated poster session



Podium discussion



- Tuesday night: Pizza from 17:30
- 18:15 onwards, Podium discussion on all things computational with trainers:
 - Marie Rognes (FEniCS), Simula Labs, Oslo, Norway
 - Chris Fonnesbeck (Pandas), Vanderbilt University, US
 - Skipper Seabold (Pandas), Civis Analytics, US
 - Adrian Jackson (Intel), University of Edinburgh, UK
 - Jerome Velut (VTK/Paraview), Kitware, France
 - Kenji Takeda (Azure), Microsoft, UK

last minute stuff

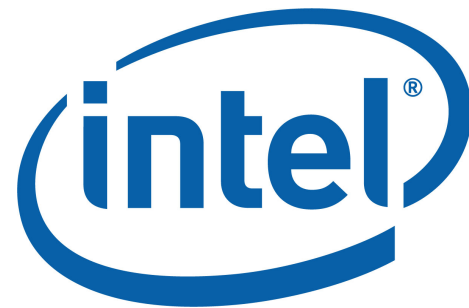
- name bagdes – you should all have one and wear it; get it from registration
- eduroam – who is not connected yet?
- IPython – Fernando Perez -> Benjamin Ragan-Kelly (MinRK)

Sponsors

EPSRC

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[**simula** . research laboratory]



VANDERBILT
UNIVERSITY



Questions?

Rooms

