PAMBAYESIAN

LAUNCH WORKSHOP

16th April 2018, 15:00-17:00 Barts Pathology Museum,

3rd Floor, Robin Brook Centre, W Smithfield, London EC1A 7BE

AGENDA

Time	Presentation details	Speakers
15:00	**Welcome & Registration**	
15:05	**Programme Overview & Progress Update**	Norman Fenton
15:15	**Industry Introductions:** A brief opportunity for those from outside of QMUL to introduce their organisation and service offerings	TBC
15:45	**Gestational Diabetes:** Clinical decision-system development with glucose self-test	Graham Hitman
16:00	**Rheumatoid Arthritis:** remote monitoring app development with guided therapy optimization	Frances Humby
16:15	**Atrial Fibrillation & Cardiac monitor:** Software development using large ECG data sets from wearables	Scott McLachlan
16:30	**1-1 Networking**	William Marsh - Specific collaboration with technology companies Lina Kyrimi - General case studies Norman Fenton - Bayesian nets Paul Curzon and Hamit Soyel - Human interaction issues Scott McLachlan and Maggie Wang - Architecture
16:55	**Next Steps & Future Meetings**	Norman Fenton
17:00	**Programme Close & Drinks Reception**	

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Speakers from the Academic team

Name and Details	Research Expertise
Norman Fenton n.fenton@qmul.ac.uk http://www.eecs.qmul.ac.uk/~norman/	• Quantitative risk assessment • Development of both general purpose and application specific methods to build and use models • Software engineering including pioneering work on software metrics
Graham Hitman g.a.hitman@qmul.ac.uk https://www.qmul.ac.uk/blizard/staff/centre-for-genomics-and-child-health/staff/graham-a-hitman.html	• Gene discovery arising from genome-wide association scans in type 2 diabetes • Use of epigenetics to study gene environmental interaction
Frances Humby f.humby@qmul.ac.uk https://www.qmul.ac.uk/whri/people/academic-staff/items/humbyfrances-.html	• Synovial pathobiological markers of prognosis in early disease of Rheumatoid Arthritis (RA) • Identification of synovial biomarkers of response/resistance to biologic drugs

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Name and Details	Research Expertise
William Marsh d.w.r.marsh@qmul.ac.uk http://www.eecs.qmul.ac.uk/~william/	• Medical Decision Support Models: Data, Knowledge and Evidence • Safety, reliability and risk: Modelling accidents and incident causes
Evangelia Kyrimi e.kyrimi@qmul.ac.uk http://www.eecs.qmul.ac.uk/profiles/kyrimievangelia.html	• Biostatistics • Development of Bayesian Networks in medical applications • Use of Bayesian Networks to support clinical decision making
Paul Curzon p.curzon@qmul.ac.uk http://www.eecs.qmul.ac.uk/~pc/	• Formal cognitive modelling and human error • Verification of verification systems • Social aspects of interaction design
Hamit Soyel h.soyel@qmul.ac.uk http://www.eecs.qmul.ac.uk/profiles/soyelhamit.html	• Developing interactive interfaces to provide clinical decision-making support applicable to home-based and wearable real-time monitoring systems robotics • Multidisciplinary areas of user-centered interface design of multimodal systems and social signal processing

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Name and Details	Research Expertise
Scott McLachlan scott.mclachlan@qmul.ac.uk http://www.eecs.qmul.ac.uk/profiles/mclachlanscott.html	- Electronic Health Records - Creation of Realistic Synthetic Electronic Health Records (RS-EHR) - Legal and Medical Decision Making and Support Systems (DSS) - Health Law and Ethics - Electronic Surveillance (Collection, Uses, and Legislation) - Data Integration - Human-Computer Interaction (HCI)
Maggie Wang huange.wang@qmul.ac.uk http://www.eecs.qmul.ac.uk/profiles/wanghuange.html	- Development and applications of algorithms for constructing probabilistic graphical models, especially (dynamic) Bayesian networks

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Academic team

Name and Details	Research Expertise
Martin Neil m.neil@qmul.ac.uk http://www.eecs.qmul.ac.uk/~martin/	• Bayesian modelling and intelligent risk assessment • Interest in application domains such as medical analytics, legal reasoning, embedded software, operational risk in finance, systems and design reliability (including software), project risk, commercial risk, decision support, cost benefit analysis, AI and personalization, machine learning, legal argumentation, cyber security and football prediction.
Akram Alomainy a.alomainy@qmul.ac.uk http://www.eecs.qmul.ac.uk/~akram/	• Healthcare ICT: Radio prospective • Body-centric wireless communication • Smart cooperative networks: Personal and body area concepts • Wireless sensor network • Cognitive radio
Dylan Morrissey d.morrissey@qmul.ac.uk https://www.qmul.ac.uk/whri/people/academic-staff/items/morrisseydylan-.html	• Development and delivery of high-quality evidence-based physiotherapy for patients with musculoskeletal disorders Link between movement and pathology, tendinopathy, clinical reasoning and education

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Sarah Finer s.finer@qmul.ac.uk https://www.qmul.ac.uk/blizard/staff/centre-for-primary-care-and-public-health/items/sarah-finer.html		• Early life origins of type 2 diabetes • Prevention of type 2 diabetes, including after gestational diabetes • Improving care for people living with diabetes using new care models
Bobby Huda bobby.huda@bartshealth.nhs.uk https://bartshealth.nhs.uk/find-a-consultant/?consultant=708&pag_page=13		• Type 1 diabetes (in particular insulin pumps/sensors) • General diabetes • Diabetes in pregnancy • General endocrinology and obesity.

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Companies

Company	Contact	Interests of Company
AliveCor https://www.alivecor.com/	**Glyn Barnes**	• AliveCor develops and manufactures miniaturised ECG recording devices that work with smartphones, tablets or Apple watch.
Be more digital http://beingmoredigital.com/	**Jag Minhas**	• Innovative and disruptive professional and advisory services aimed at businesses delivering products and services in digital, Internet and multimedia spaces. • Experience helping organisations of all sizes take innovative steps towards being more digital.
Docobo https://www.docobo.co.uk/	**Robert Smith**	• Docobo Ltd is a UK medical device company that provides medical-grade digital health solutions that fully support integrated care, business intelligence and remote home management of patients with long-term conditions.
ESCAPE-pain http://www.escape-pain.org/	**Michael Hurley**	• The ESCAPE-pain app is a twice-weekly, six-week evidence-based programme that combines education and exercise, to benefit people with chronic joint pain. The app is produced for the NHS by the Health Innovation Network and Salaso Health Solution Ltd.
Inhealthcare http://www.inhealthcare.co.uk/	**Georgina Adamson**	• Inhealthcare's national digital health platform provides the infrastructure to radically change the NHS. Our platform enables patients to be cared for outside

		of hospital walls, reducing the financial burden on the NHS and freeing up valuable resource as patients take greater responsibility for their own care.
		• Inhealthcare's digital health services include: INR self-testing, undernutrition, weight management, chronic pain, mental health, digital PROMs collection, vital signs, falls prevention, the digital care home, medication reminders, diabetes and COPD.
Propagator http://www.propagatorgroup.com/	**Chris Robson**	• Propagator work with healthcare providers to cut costs, and improve patient outcomes and customer engagement • Created "Living with a chronic condition" digital platform to help healthcare providers, including the NHS, to reduce patient management costs and improve patient outcomes • Created Squeezy - Top 10, clinically recommended, incontinence app, developed with the NHS

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Funding Opportunities

Funding Body	Funding Competition
Innovate UK	**Sector Competition: Open** https://apply-for-innovation-funding.service.gov.uk/competition/120/overview **Deadline: 9th May 2018**
Innovate UK	**Biomedical Catalyst 2018 round 1: early stage award** https://apply-for-innovation-funding.service.gov.uk/competition/128/overview **Deadline: 6th June 2018**
National Institute for Health Research	**Product Development Awards (PDA)** https://www.nihr.ac.uk/funding-and-support/funding-for-research-studies/funding-programmes/invention-for-innovation/#i4i-Connect **Deadline: 6th June 2018**
National Institute for Health Research	**Efficacy and Mechanism Evaluation Programme** including: Neurodegenerative Disorders; Type 2 Diabetes; and Mechanisms of Action of Health Interventions https://www.nihr.ac.uk/funding-and-support/funding-opportunities/?&start=1&custom_in_Programme=5237 **Deadline: 21st August 2018**
Innovate UK	**Knowledge Transfer Partnerships (KTPs)** https://www.gov.uk/guidance/knowledge-transfer-partnerships-what-they-are-and-how-to-apply **Deadline: Aligned to Innovate UK competition calls**
EPSRC	**Various research council/academic awards but some industrial partnerships** https://www.epsrc.ac.uk/

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Notes