

Qualcomm Contacts:

Richard Tinkler, Sr. Director, Marketing

Phone: 44-20-8996-4106

Email: rtinkler@qti.qualcomm.com

Tina Asmar, Corporate Communications

Phone: 1-858-845-5959

Email: corpcomm@qualcomm.com

Qualcomm Announces the Winners of the Qualcomm Innovation Fellowship Program for its Cambridge Research Center

Cambridge, United Kingdom – April 15, 2014 – Qualcomm Technologies, Inc., a wholly owned subsidiary of Qualcomm Incorporated, today announced the United Kingdom winners of the Qualcomm Innovation Fellowship (QInF) program. QInF is a prestigious program held annually which focuses on recognising, rewarding, and mentoring the most innovative PhD students across Europe and the United States.

Hanme Kim from Imperial College's Robot Vision Group Department of Computing, Patrick Snape from Imperial College's Visual Information Processing Group and Amah Shah from Cambridge University's Machine Learning Group has been selected as the winning students for their outstanding proposals. Each has been awarded £10,000 and mentoring from researchers from the Qualcomm Research Cambridge location.

- Hanme Kim, supervised by Professor Andrew Davison has been selected for his proposal "Visual SLAM and 3D Reconstruction using an Event Based Camera". The emergence of the event-based cameras motivated this research project, which aims to develop a visual SLAM system and 3D reconstruction using a single neuromorphic vision sensor. The system is inherently more efficient than traditional cameras because it exploits low latency, high temporal resolution, wide dynamic range and compressed visual information provided by event-driven dynamic vision sensors.
- Patrick Snape, supervised by Professor Stefanos Zafeiriou, has been selected for his proposal "Recovering Facial Shape from Unconstrained Images". This research will extend the expressive power of 3D morphable models with a single algorithm that will simultaneously align and recover a 3D model of a face directly from 2D images, eliminating the complex model reconstruction requirements of existing techniques.

Final

- Amah Shah, supervised by Professor Zoubin Ghahraman, was selected for his proposal on “Bayesian Global Optimisation of Expensive Functions”. Global optimisation is a difficult problem to ‘solve’ completely, as each task requires a slightly tailored approach. However, Bayesian nonparametric machinery provides a solid framework under which global optimisation can be tackled more generally. Optimisations using Bayesian nonparametrics might become the ‘go to’ method when addressing tough global optimization problems in the future and this research aims to make an impact in this area.

In addition, Hanme Kim was awarded the first-ever Europe Champion distinction for having the most innovative proposal from all participating Qualcomm centers: United Kingdom, Germany and Austria.

“We were very pleased by the high quality of proposals submitted this year. They illustrate the quality of the work and technological advances coming from Cambridge University and Imperial College,” said Charles Bergan, Vice President of Engineering at Qualcomm Research. “It was a tough decision, but we felt that Kim, Snape, and Shah had some very forward-thinking ideas and we are excited about the opportunity to work with them.”

Bergan participated for a third time in this year’s QInF judging panel, along with the heads of Qualcomm’s European research offices – John Scott, Peter Rauber and Juan Montojo – and several Qualcomm Cambridge researchers. Earlier in the year, Qualcomm encouraged Engineering PhD students at Cambridge University and Imperial College to join QInF and submit their most innovative proposals. All submitted proposals were then carefully reviewed by Qualcomm researchers who selected the finalists. Qualcomm invited those finalists to present their proposals to a panel of executive judges who determined the winning proposals.

Luke Tunmer, Engineer, Principal at Qualcomm Research Cambridge said, “Qualcomm is honoured to be able to invite submissions from these prestigious European Universities. Collaboration between industry and academic research is crucial to ensure that our industry continues to create new technologies. For this reason, we are excited to sponsor the annual QInF, as the work and ideas that we are hearing from the winners and other entrants today will no doubt have a significant effect on the technologies in years to come.”

For more information about QInF, please visit www.qualcomm.com/research/university-relations/innovation-fellowship

About Qualcomm Incorporated

Qualcomm Incorporated (NASDAQ: QCOM) is a world leader in 3G, 4G and next-generation wireless technologies. Qualcomm Incorporated includes Qualcomm’s licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a wholly-owned subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm’s engineering, research and development functions, and substantially all of its products and services businesses, including its semiconductor business, QCT. For more than 25 years, Qualcomm ideas and inventions have driven the evolution of digital communications, linking people everywhere more closely to information, entertainment and each other. For more information, visit Qualcomm’s [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

Final

#

Qualcomm is a trademark of QUALCOMM Incorporated, registered in the United States and other countries. All QUALCOMM Incorporated trademarks are used with permission. Other product and brand names may be trademarks or registered trademarks of their respective owners.