James William Hennessey

EngD (PhD) Student, University College London

Contact Information	e-mail: jameswhennessey@gmail.com website: jwhennessey.com github: github.com/JWHennessey

Education

University College London, London
EngD Virtual Environments, Imaging and Visualisation   **09/2013 − Present**

University College London, London
Distinction, MSc Computer Science   **09/2011 − 09/2012**

University of Leeds, Leeds
1st, BA New Media   **09/2008 − 06/2011**

Honours and Awards

Rabin Ezra Scholarship, *Rabin Ezra Scholarship Trust*   **01/2017**

Peter Williams Prize, *University College London*   **11/2012**

Enterprise Scholarship, *University of Leeds*   **12/2010**

Professional Experience

Adobe Research, San Francisco
Research Intern   **06/2016 − 09/2016**
Developed a method for transferring parametric image-based edits for multi-channel compositing for Photoshop 3D. I was mentored by Wilmot Li, Bryan Russell and Eli Shechtman.

Adobe Research, Seattle
Research Intern   **06/2015 − 09/2015**
Developed a method for generating sketching tutorials for a user specified 3D model. The work was published at i3D '17 and has a patent pending. I was mentored by Holger Winnemöller and Mira Dontcheva.

University College London, London
Postgraduate Teaching Assistant   **01/2014 − Present**
Teaching assistant, project supervisor and marker for modules: Image Processing (GV12), Robotics Programming (COMP105P), Apps Design (GC02) and Software Engineering (GC22).

uMotif, London
Software Engineer   **03/2013 − 09/2013**

Entrepreneur First, London
EF1 Cohort Member   **09/2012 − 09/2013**

Publications

Hennessey, J.W., Liu, H., Winnemöller, H., Dontcheva, M., and Mitra, N.J. (2017) How2Sketch: Generating Easy-To-Follow Tutorials for Sketching 3D Objects. *In Proceedings of ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games 2017.*

Hennessey, J.W. and Mitra, N.J. (2015) An Image Degradation Model for Depth-augmented Image Editing. *Computer Graphics Forum (Proceedings of SGP 2015)* 34(5): 191-199.

Patents

Winnemöller, H., Mitra, N.J. Dontcheva, M., and Hennessey, J.W., Providing a Tutorial for Drawing a Scaffold to Guide a Drawing of a Three Dimensional Object. *US Patent Pending, Submitted 2017.*

Open-Source

phpInsight, Sentiment Analysis in PHP   github.com/JWHennessey/phpInsight
A text sentiment classifier in PHP designed for analysing social media. The classifier uses a 'bag-of-words' approach and classifies text as positive, negative or neutral. It was initially developed as part of my undergraduate thesis, then as Social Insight Ltd, but I later released it under a GPL licence.

Skills

I predominantly program in C++, Matlab and Python. I have experience with libraries commonly used in computer graphics and vision e.g. OpenGL, OpenCV, Eigen, Ceres. I also have experience working with 3D modelling software e.g. Maya, Blender, Vray.