

Dr Melinos Averkiou

Post-Doctoral Researcher

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Education

- Oct. 2011 – Oct. 2015** – **University College London, Department of Computer Science** **London, UK**
PhD in Computer Science (advisor: Prof. Niloy Mitra)
Thesis: Data-driven Modelling of Shape Structure
- Aug. 2014 – Sep. 2014** – **Stanford University, Geometric Computing Group** **Palo Alto, USA**
Visiting PhD student (advisor: Prof. Leonidas Guibas & Dr. Vladimir G. Kim)
- Oct. 2009 – Oct. 2010** – **University of Cambridge, Computer Lab** **Cambridge, UK**
MPhil in Advanced Computer Science (advisor: Prof. Neil Dodgson)
Grade: 75 out of 100
Dissertation: 3D Interfaces for 3D Modeling
- Sep. 2005 – Jul. 2009** – **University of Cyprus, Department of Computer Science** **Nicosia, Cyprus**
BSc in Computer Science (advisor: Dr. Yiorgos Chrysanthou)
Grade: 9.3 out of 10 (Top of class)
Dissertation: A multi-touch interface for 3D navigation inside the virtual world of a museum exhibit

Publications

Journals

- 2017** Hu, R., Li, W., van Kaick, O., Huang, H., **Averkiou, M.**, Cohen-Or, D., Zhang, H.: Co-Locating Style-Defining Elements on 3D Shapes. *ACM Transactions on Graphics* 36 (In Press)
- 2016** **Averkiou, M.**, Kim, V.G., Mitra, N. J.: Autocorrelation Descriptor for Efficient Co-alignment of 3D Shape Collections. *Computer Graphics Forum*, 35 (1) pp. 261-271 (project website: <http://goo.gl/wJZqns>) – **Project Lead**
- 2014** Fish, N.*, **Averkiou, M.***, van Kaick, O., Sorkine-Hornung, O., Cohen-Or, D., Mitra, N. J.: Meta-representation of Shape Families. *ACM Transactions on Graphics*, 33 (4) pp. 34:1-34:11, *joint first authors (project website: <http://goo.gl/0YNCaU>) - **Project Co-Lead**
- Averkiou, M.**, Kim, V. G., Zheng, Y., Mitra, N. J.: ShapeSynth: Parameterizing Model Collections for Coupled Shape Exploration and Synthesis. *Computer Graphics Forum*, 33 (2), pp. 125-134 (project website: <http://goo.gl/3dfFtc>) - **Project Lead**
- Zheng, Y., Cohen-Or, D., **Averkiou, M.**, Mitra, N. J.: Recurring Part Arrangements in Shape Collections. *Computer Graphics Forum*, 33 (2), pp. 115-124 (project website: <http://goo.gl/abqLB6>)

Conferences

- 2017** Kalogerakis, E., **Averkiou, M.**, Maji, S., Chaudhuri, S.: 3D Shape Segmentation with Projective Convolutional Networks. In *Proceedings of CVPR 2017 (Oral Presentation)*
- 2015** Zheng, S., Prisacariu, V. A., **Averkiou, M.**, Cheng, M. M., Mitra, N. J., Shotton, J., Torr, P. HS., Rother, C.: Object Proposals Estimation in Depth Image Using Compact 3D Shape Manifolds. In *Proceedings of GCPR 2015*
- 2012** **Averkiou, M.**, Mitra, N. J.: Automatic Alignment of Shape Collections. In *Proceedings of Eurographics 2012 – Posters Track. - Project Lead*
- 2011** **Averkiou, M.**, Dodgson, N.: Comparison of relative (mouse-like) and absolute (tablet-like) interaction with a large stereoscopic work-space. In *Proceedings of the Stereoscopic Displays and Applications XXII Conference. - Project Lead*
- 2009** **Averkiou, M.**, Chrysanthou, Y.: Evaluating a multi-touch interface for 3D navigation inside the virtual world of a museum exhibit. In *Proceedings of the 10th VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage. - Project Lead*
- 2008** Kunkel, T., **Averkiou, M.**, Chrysanthou, Y.: A web-based virtual museum application. In *Proceedings of the 14th International Conference on Virtual Systems and Multimedia. - Project Co-Lead*

Employment

- Nov. 2016 – today** **University of Cyprus, Department of Computer Science** **Nicosia, Cyprus**
Post-Doctoral Researcher
Responsible for research in deep learning for 3D geometry
- Oct. 2015 – Oct. 2016** **University of Cyprus, Department of Computer Science** **Nicosia, Cyprus**
Special Teaching Scientist
Responsible for organizing and teaching post-graduate courses
- Aug. 2010 – Sep. 2011** **A.R.M.E.S. Ltd** **Nicosia, Cyprus**
Role: **Research engineer**
 - Developed augmented reality solutions in Windows using proprietary marker trackers and Android using Qualcomm SDK for poster and marker tracking.
- Dec. 2008 – Sept. 2009** **University of Cyprus, Electrical Engineering Department** **Nicosia, Cyprus**
Role: **Researcher** (advisor: Prof. Christoforos Hadjicostis & Dr. George Hadjichristofi)
 - Part-time work, developing simulations for testing reliability issues related to the Cache and Forward network architecture for wireless nodes.
- Dec. 2007 – Sep. 2009** **University of Cyprus, Computer Graphics Lab** **Nicosia, Cyprus**
Role: **Researcher** (advisor: Dr. Yiorgos Chrysanthou)
 - Developed the Byzantine Museum's online interactive virtual tour.
 - Developed part of a virtual tour of 19th century Nicosia and a multi-touch exhibit for the Leventis Municipal Museum.

Professional Activities

- 2017** Reviewer: IEEE Transactions on Visualisation and Computer Graphics journal
- 2016** Reviewer: Computers and Graphics, Graphical Models, IEEE Transactions on Visualisation and Computer Graphics, Pacific Graphics, SIGGRAPH Asia 2016
Program Committee member: IEEE Melecon 2016
- 2015** Reviewer: SIGGRAPH 2015 conference
- 2014** Program Committee member: SIGGRAPH Asia 2014 Workshop on Creative Shape Modeling and Design

Teaching

- 2016 - 2017** Computer Games Development, University of Cyprus – Course Instructor
- 2015 - 2016** Graphical and Visual Computation, University of Cyprus – Course Instructor
Computer Games Development, University of Cyprus – Course Instructor
Introduction to Programming, University of Cyprus – Course Instructor
- 2012 - 2013** Image Processing, University College London – Teaching Assistant

Awards & Grants

- 2017** NVIDIA GPU Grant
- 2016** University of Cyprus Postdoctoral Fellowship
- 2014** Rabin Ezra Scholarship Trust award (5000 GBP)
- 2009 & 2011 – 2014** Cyprus government post-graduate scholarship (~20000 Euro)
- 2009&2011** Leventis Foundation scholarship (~10000 GBP)
- 2009 – 2010** University of Cambridge scholarship (tuition & stipend) (~15000 GBP)
- 2010** 1st prize at graduate project competition of Cyprus Research Foundation (~3500 Euro)
- 2009** Darwin College Cambridge Bursary (1000 GBP)
- 2009** Cyprus Youth Foundation post-graduate award (~2000 Euro)
- 2009** 2nd prize at undergraduate project competition of Cyprus Research Foundation (~3500 Euro)
- 2009** Top graduate of Computer Science Department, University of Cyprus (three awards) (~4000 Euro)