Gregorio Palmas

Curriculum Vitae

Education

2013–2016 **Doctorate**, *KTH Royal Institute of Technology*, Stockholm.
Specialized in Visualization and Data Analysis

2008–2012 **Masters Degree in Computer Science**, *Universitá di Pisa*, Pisa.

2004–2008 **Bachelors Degree in Computer Science**, *Universitá degli Studi di Siena*, Siena.

Doctoral Thesis

Title *Visual Analysis of Multidimensional Data for Biomechanics and HCI*

Supervisor Prof. Dr. Tino Weinkauf

Description Creation and improvement of visualizations focused on the interactive analysis of multidimensional biomechanical data of human movements for HCI.

Masters Thesis

Title *Computer-Assisted Assembling of Fragmented Objects*

Supervisors Dr. Nico Pietroni & Dr. Paolo Cignoni

Description This thesis showed my work on implementing an interactive tool for the interactive reassembly of fragmented virtual objects.

Bachelors Thesis

Title *Binary Matrices with Adjacency Constraints*

Supervisors Prof. Dr. Andrea Sorbi

Description Demonstration that the reconstruction algorithm of binary matrices of class $N_4^{\leq 1}$ using their vertical and horizontal projections is NP-Hard

Experience

April 2017–Present **Software Engineer**, Corvil Ltd., Dublin.

Experience in the Back end Team:
Implemented the Windows Sensor, porting to Windows of existing software available only for Linux OS for capturing network data.

Experience in the big data platform team:
Fixed the currently used D3 visualization and worked in the backend of the platform.

2016–2017 **Post Doctoral Researcher**, KTH, Royal Institute of Technology, Stockholm.
Research on procedural optimization of scatter plots using perceptual and mathematical factors.

191 Bellevue, Islandbridge – Dublin, Ireland D08W9P2
(+353) 87 098 5642, (+39) 338 85 18 763
gregorio.palmas@gmail.com
https://www.linkedin.com/in/gregorio-palmas-42580b63/

2012–2013 **Intern**, Max Planck Institute for Informatics, Saabruecken.
Research activity focused on the application of motion capture based biomechanical simulation in HCI experiments. Implementation of a tool to execute an interactive analysis process on high dimensional data sets.

2012 **Graduate Fellow**, Consiglio Nazionale delle Ricerche, Pisa.
Research on a semi-assisted method for virtual reconstruction working with information extracted from old photos of the involved objects.

Pubblications

G. Palmas, M. Bachynskyi, A. Oulasvirta, H.-P. Seidel, T. Weinkauf

MovExp: A Versatile Visualization Tool for Human-Computer Interaction Studies with 3D Performance and Biomechanical Data

IEEE TVCG, Paris, France, December, 2014.

G. Palmas, M. Bachynskyi, A. Oulasvirta, H.-P. Seidel, T. Weinkauf

An Edge-Bundling Layout for Interactive Parallel Coordinates

Proc. IEEE PacificVis, Yokohama, Japan, March, 2014.

M. Bachynskyi, A. Oulasvirta, G. Palmas, T. Weinkauf

Informing the design of novel input methods with muscle coactivation clustering

ACM Transactions on CHI, January 2015

Further publications at `https://scholar.google.it/citations?user=I7m9L9gAAAAJ`

Computer skills

Basic Haskell, Prolog, ASP

Intermediate Javascript, D3, Superset, C#, ASP.net, PHP, SQL, Vim

Advanced C, C++, GLSL, Python, Java, Matlab, Bash, OpenGL, VTK, Qt, MS Windows, Mac OS, Linux, LaTeX, MS Visual Studio

Communication Skills

2013–2016 Scientific Presentation at:
IEEE Pacific Visualization, Yokoama, Japan
IEEE InfoVis, Paris, France
IEEE EuroVis, Groningen, Netherlands
Several teaching activities at KTH Royal Institute of Technology.

Languages

Italian **Mothertongue**

English **Proficient**

Greek **Basic** *Basic words and phrases only*

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