

## **Dr. Céline Loscos**

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## **Curriculum Vitae**



Date of Birth: 12<sup>th</sup> July 1972  
Citizenship: French



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## **1. Educational Qualifications**

### 1996-1999 Ph.D. in Computer Science

"Interactive Modelling for Common Illumination in Augmented Reality", at iMAGIS/GRAVIR lab, Grenoble University, France. Supervisors: C. Puech and G. Drettakis.

### 1995-1996 Graduate Degree in Computer Graphics, Vision and Robotics – Mention bien

D.E.A. in Computer Graphics, Vision, Robotics (equivalent to M.Res.), at National Engineering School of Computer Science and Applied Mathematics in Grenoble (ENSIMAG), France. Research project: "Discontinuity Meshing", supervised by G. Drettakis.

### 1995 Half-year abroad in Concordia University, Montreal Canada

One term tuition and Project on Intelligent Agents, supervised by Dr. Krishnan

### 1990-1995 Undergraduate Degree in Sciences – Mention bien.

At Grenoble University, France: Mathematics, Physics, and Computer Science major.

## **2. Posts**

### **2.1. Academic positions**

Since January 2007: Researcher funded by the Ramon y Cajal Programme

At Universitat de Girona, Departament d'Informàtica i Matemàtica Aplicada, Computer Graphics Lab.

September 2001 – December 2006: Senior Lecturer (equivalent of an assistant professorship in the USA)

At University College London, in the Computer Science Department. Research carried out in the Computer Graphics and Virtual Environments research lab.

### **2.2. Research Position**

January 2000-September 2001: Postdoctoral position

University College London, in the Virtual Environments and Computer Graphics research lab.

### 3. Memberships and Refereeing

#### 3.1. Memberships

- Association of Computing Machinery (ACM) SIGGRAPH
- European Association for Computer Graphics (Eurographics)

#### 3.2. Programme committees

- Co-Chair of *Eurographics* International Tutorial Committee 2005.
- Co-Chair of the short paper committee of *Virtual Reality Software and Technology* (ACM), 2008.
- *Virtual Reality Software and Technology* (ACM), Programme Committee 2005, 2006, 2007.
- *ACM/Eurographics International Symposium on Virtual Reality, Archaeology and Cultural Heritage (VAST)*, Programme Committee 2004-2006.
- *Annual International Workshop on Presence*, Programme Committee 2005.
- *VSMM, Virtual Reality at work in the 21<sup>st</sup> Century*, Programme Committee 2005.
- *International Workshop on Crowd Simulation, V-CROWD*, Programme Committee 2005.
- *Eurographics*, Programme Committee 2004, 2007.
- *Eurographics short papers*, Programme committee 2008.
- *IEEE VR*, Programme Committee 2006.
- *International Conference on Computer Graphics Theory and Applications (GRAPP)*, programme committee 2006, 2007.
- *International Workshop on Presence*, programme committee 2007.
- *IETEuropan Conference on Visual Media Production (CVMP)*, programme committee 2006, 2007.

#### 3.3. Refereeing

##### (a) Journals include:

- Computer Graphics (SIGGRAPH) Annual Proceedings / ACM Transactions on Graphics
- Eurographics Annual Conference/Computer Graphics Forum
- Presence: Teleoperators and Virtual Environments
- Eurographics Computer Graphics Forum
- Springer Virtual Reality

##### (b) Conferences include:

- ACM *SIGGRAPH Papers and courses* refereeing over several years (SIGGRAPH is the premier international conference devoted to computer graphics and related fields).
- *Eurographics* refereeing over several years.

- *Virtual Reality Software and Technology* (ACM), over several years.
- *Eurographics Symposium on Rendering*, over several years.

**(c) Refereeing for Research Institutes**

- UK Engineering and Physical Sciences Research Council
- Science Foundation Ireland
- French National Research Agency (ANR)

**(d) Prizes**

Eurographics UK, Theory and Practice in Computer Graphics, paper prize 2003.

## 4. Grants

### 4.1. Funding bodies

#### UK

EPSRC: Engineering and Physical Sciences Research Council

AHRC: Art and Humanity Research Council

Royal Academy of Engineering

UCL Graduate School

#### European

IST programmes of the European Union

### 4.2. Recent Grants

*CAD basado en el modelado y la simulación de transporte de luz* - TIN2007-67120, National project (MEC). 96.800 Euros, 2007 - 2010 (principal investigator Francesc Xavier Pueyo). Participant in the project.

*Presence: Research Encompassing Sensory Enhancement, Neuroscience, Cerebral-Computer Interfaces and Applications(PRESENCIA)*. European project with a consortium of 14 partners. (Co-author with Anthony Steed, Principal Investigator for UCL). Approx 900,000 Euros at UCL (6.4M Euros for the project as a whole). <http://www.presencia.org/>

*Empathic avatars: input, processing and output of emotional state* (EPSRC) £295,110, starting October 2005 (Principal Investigator shared with Mel Slater).

*CREATE: Constructivist Mixed Reality for Design, Education and Cultural Heritage (CREATE)*. European project with a consortium of 7 partners. Principal Investigator and Project Coordinator. (Approx 450,000 Euros at UCL, 2.3M Euros for the project as a whole). 2002-2005. <http://www.cs.ucl.ac.uk/create>. This project was evaluated and was successful.

*The museum of PureForm (PUREFORM)*. European project with a consortium of 7 partners. Principal Investigator. (Approx 170,000 Euros at UCL, 1.6M Euros for the project as a whole). 2001-2004. <http://www.pureform.org/>. This project was evaluated and was successful.

EngD (Engineering Doctorate) funding by the BBC Research and Development. EngD supervisor.

### 4.3. Other Grants

Travel funding from the UCL Graduate School, £873 (2005).

Travel funding from the Royal Academy of Engineering, £800 (2005 and 2006).

Bridging funding from the UCL Graduate School, for research fellow Chris Christou £2800 (2005).

Starting grant from the Ramon y Cajal Programme, €15000 (2007)

## 5. Academic Supervision

### 5.1. PhD Students

#### (a) Past Students

- K. Jacobs. October 2003-December 2006. Relighting of Outdoor Scenes for Mixed-Reality. Funded by the UCL Graduate School. *PhD completed with no correction asked by the examiners.*

#### (b) Current Students

- Y. Wong. Started October 2004. Human-Based Perception Driven Model for Crowd Navigation. Funded by the DTA.

### 5.2. Research Fellows supervised

#### (a) Past Research Fellows

- Marco Gillies. Body Language for Empathic Avatars. Funded by the EPSRC. 2005-2007
- Chris Christou. Funded by CREATE and PURFORM (EU IST projects). May 2004-February 2005. Funded by PRESENCCIA (EU IST project) 2006-2007.
- Hila Ritter Widenfeld. Funded by CREATE (EU IST project). March 2003-February 2005.
- Franco Tecchia. Funded by CREATE (EU IST project). September 2003-February 2004. September 2004-February 2005.
- Cameron Angus. Funded by CREATE (EU IST project). February 2004-November 2004.
- Agnes Guerraz. Funded by CREATE (EU IST project). September 2002-June 2003.
- Alexandre Meyer. Funded by CREATE (EU IST project). May 2002-September 2003.

#### (b) Visiting Researchers

- Franck Deroche. Ecole centrale de Nantes, France. November-December 2007. Interactive shadows for augmented reality.
- Subodh Chawla. Delhi College of Engineering (DCE), India. June 2007-August 2007. High-Dynamic Range images.
- Anders Hjorth and Jeppe Vesterbaek. Aalborg University. Denmark. September 2005-April 2006. Outdoor Relighting.
- Emanuele Ruffaldi. Scuola Superiore Sant'Anna. Laboratorio PERCRO. Pisa, Italy. Summer 2003. Haptic Evaluation Methods.
- Jean-Marc Coic. Ecole Polytechnique Paris. France. Spring-Summer 2003. Multi-Layer Impostors for Crowds.
- Stephane Fortin. Ecole Polytechnique Paris. France. Spring-Summer 2003. Perspective Shadow Maps Applied to Crowds.
- David Marchal. Ecole Polytechnique Paris. France. Spring-Summer 2002. Crowd Behaviour Simulation.

## 6. Teaching and Examining

### 6.1. Teaching at UCL

#### (a) Lectures

- Graphics, Modelling and Visualisation, MSc in Vision, Imaging and Virtual Environments and BSc Computer Science. Link to course description and course notes: <http://www.cs.ucl.ac.uk/teaching/GMV/>
- Virtual Environments, in MSc in Vision, Imaging and Virtual Environments and MSci Computer Science.
- Advanced Computer Graphics, MSc in Vision, Imaging and Virtual Environments and BSc Computer Science. (New course set up in 2004). Link to course description and course notes: <http://www.cs.ucl.ac.uk/teaching/4074/>
- Image Processing and Computer Graphics, MSc Computer Science and BSc Computer Science. (New course set up in 2003). Link to course description and course notes: <http://www.cs.ucl.ac.uk/teaching/3079/>
- Introduction to Programming (JAVA), MSc Computer Science, 2000-2003.

#### (b) Supervision

- BSc and MSci Computer Science, individual project (2-3 projects per year)
- MSc Vision, Imaging and Virtual Environments, research project (3-5 projects per year).
- MSc Computer Science, individual project (1 project per year).

*Prize: Alex McKenzie, winner of the SET Computational Science Student of the Year award. 2005.*

#### (c) Tutorials

- MSc Vision, Imaging and Virtual Environments (1 group of 4 students per year).
- BSc Computer Science, 1<sup>st</sup> year students. (2003)

### 6.2. External Teaching

- 1996-1999, Assistantship at Grenoble University, France.
  - "Introduction to Computer Science". Undergraduate level, 1<sup>st</sup> year.
  - "Languages and Programming" and "Architecture" Undergraduate level, 3<sup>rd</sup> year.
- 1997-1998, Assistantship at "Lycée Champollion" in Grenoble, France. Undergraduate courses for engineering, classes préparatoires.

### 6.3. PhD Examining

- PhD examiner for University of Girona, Spain, October 2005.
- PhD examiner for Katholieke Universiteit Leuven, Belgium, August 2006.
- PhD examiner for IRISA-INRIA, Rennes, France, October 2007.
- Examiner for first year, MPhil transfer, and mock up VIVAs at UCL.

## **7. Administration**

### **7.1. UCL**

#### Organisation of the research seminars for the VECG lab, 2005-2006

Activity includes to contact the speakers, to organise the venue, and to disseminate the seminars' announces.

#### Affiliate and Study abroad department tutor, 2002-2006

This role includes:

- Selecting, registering and tutoring of affiliate students and study abroad students,
- Set up and follow up of international agreements. Agreements set up during my activity: Ecole Polytechnique, France, University of North Carolina, USA, Université de Quebec à Montréal, Ecole de Technologie Supérieure (Montréal), Canada, Aalborg University, Denmark, and University of British Columbia, Canada.

#### Liaison Departmental Tutor, 2002-2005

This role includes:

- Registering and advising students from other departments willing to take courses in the computer science department
- Liasing with other department on joint programs.

#### New students Recruitment Interviews

- For BSc, MSc, and PhD/EngD level

### **7.2. iMAGIS, Grenoble, France**

#### Organisation of the laboratory research seminars, 1998-1999

Activity includes contact with speakers, organisation of the venue, and dissemination of the seminar.

## **8. Conference and Event Organisation**

Organiser of the Eurographics Symposium on Rendering, Girona, June 2009.

Organising committee for Eurographics UK (EGUK), London, 2001.

Organising committee for the Eurographics Symposium on Rendering, London, 2001.

## 9. Selected Seminars and Invited Talks

Invited seminars include:

- Universitat Polytechnica de Catalunya, July 2006.
- INRIA Rhône-Alpes, Artis and Evasion Laboratories. January 2006.
- Universitat de Girona, Computer Graphics lab, June 2005.
- University of British Columbia, Computer graphics lab, May 2005.
- Universite Claude Bernard, Lyon, France. April 2005.
- The Fundation of Hellenic World, Athens, Greece, December 2004.
- Xerox Research Centre, Grenoble, France. September 2004.
- University of East Anglia, Norwich, UK, March 2002.
- Laboratorio PERCRO, Scuola Superiore Sant'Anna, Pisa, Italy, May 2000.
- Surrey University, Guildford, UK, April 2000.
- IRIT, Toulouse, France, July, 1999.
- LABRI, INRIA, Bordeaux, France, July, 1999.

Invited talk at Conferences/Workshops include:

- Siggraph chapter, Manchester, UK , October 2008
- Workshop Motion in Games, MIG08, June 2008
- AHRC Workshop on Touch and the Value of Object Handling, Workshop 2. Birmingham, UK. December 2006.
- Computational Aesthetics in Graphics, Visualization and Imaging. May, 2006.
- Ayia Napa Summer Seminar, June 2006, Cyprus, (in conjunction with the Eurographics Symposium on Rendering).
- London 3D Imaging Technology Conference & Applications Workshops, London, UK, February 2005.
- EVA Conferences International, London, July 2003.