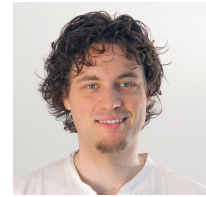


Kenneth Vanhoey  
Unity Technologies  
Atelier Numérique (bureau 117)  
51, avenue Jean Kuntzmann  
F-38330 Montbonnot-Saint-Martin

Born October 23rd, 1987  
Citizenship: Belgium  
& Luxembourg  
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# Extended CV – Kenneth Vanhoey

## *Researcher in Computer Graphics*

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- Occupations
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Last update: August 2018.

### Occupations

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#### Unity3d

2018–  
ongoing      **Research Scientist at Unity Technologies**  
Unity Labs Grenoble.

#### Viorama GmbH

2016–2018      **Scientific advisor for the company Viorama GmbH, Berlin, Germany**  
22 months      Context: development of an augmented reality application

#### ETH Zürich

2016–2018      **Post-doctoral Researcher**  
22.5 months      ERC grant “VarCity”, Computer Vision Laboratory (Luc Van Gool), ETH Zürich

#### Inria

2014–2016      **Post-doctoral Researcher**  
16 months      Graphdeco group (G. Drettakis), Inria Sophia-Antipolis Méditerranée

#### Polytech

2015      **Teaching fellow** (1 course)  
1 semester      Polytech Nice Sophia-Antipolis, University of Nice Sophia-Antipolis

#### University of Strasbourg

2013–2014      **Teaching** (50%) & **research** (50%) fellow (ATER)  
11 months      Mathematics & computer science faculty / ICube laboratory, University of Strasbourg

2010–2013      **PhD Candidate** (5/6) with complementary **teaching** activities (1/6)  
36 months      IGG group (J.-M. Dischler), ICube laboratory / Mathematics & computer science faculty,  
University of Strasbourg

2010      **Master thesis** research internship

## Occupations (continued)

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- 6 months IGG group (J.-M. Dischler), ICube laboratory, University of Strasbourg
- 2009 **Teaching fellow** (extra evening sessions)  
1 semester University of Strasbourg

### Miscellaneous (student jobs)

- 2008 Manual work at the airport (ramp handling)  
1 months Luxair, Luxembourg
- 2007 ICT helpdesk  
1 months Centre hospitalier de Luxembourg
- 2005–2006 Temporary section supply manager in supermarket  
Summers Cora Foetz supermarket, Luxembourg
- 2004–2006 Homework assistance, secondary school level, scientific courses
- 2004–2005 Children supervisor in school bus  
European school of Luxembourg
- 2003–2004 Manual community worker  
2 summers City of Dippach, Luxembourg

## Studies

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### Major

- 02/2014 **Doctorate** in sciences (PhD), specialized in computer science.  
University of Strasbourg  
Thesis “Joint treatment of geometry and radiance of digitized 3D models”.
- Public defence on February 18th, 2014. Jury composed of
- Dr. Bruno LÉVY (reviewer), Research director, Inria Nancy-Grand Est, France
  - Dr. Kadi BOUATOUCH (reviewer), Professor, university of Rennes I, France
  - Dr. Mateu SBERT (president), Professor, university of Girona, Spain
  - Dr. Basile SAUVAGE (co-advisor), Associate professor, university of Strasbourg, France
  - Dr. Jean-Michel DISCHLER (PhD advisor), Professor, university of Strasbourg, France
- PhD marked as follows:
- Scientific quality: very good
  - Manuscript: excellent
  - Presentation: excellent
  - Questions & answers: excellent
- Thesis awarded with the “**thesis award** of the university of Strasbourg”.
- 06/2010 **Master of sciences** in computer science, specialized in computer graphics  
University of Strasbourg  
Thesis “Simplification of meshes with light fields”, supervised by Basile SAUVAGE and Jean-Michel DISCHLER.  
Magna cum laude, ranked first.
- 06/2008 **Bachelor in computer science**  
University Louis Pasteur (Strasbourg I)

## Studies (continued)

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Magna cum laude, ranked first.

07/2005      **European baccalaureate**, specialised in sciences  
European School of Luxembourg  
Average of 82,84/100, mathematics award.

### Minors

10/2017      Workshop on “Introduction to **decision-making**”  
1 day              ETH Zürich

07/2013      Summer school on “**Leadership & Innovation**”  
1 week              League of European research universities / University Pierre & Marie Curie

2011-2013      Courses on **Europe**: how Europe works, a.o., higher education and research  
10H                  University of Strasbourg / European parliament / Council of Europe

2012              Optional course “**Human resources** management”  
1 term                  University of Strasbourg

2011              Workshop on “**The voice**, gaining awareness & confidence”  
3 days                  University of Strasbourg

2009              Optional course “**Professional identity & self-esteem**”  
1 term                  University of Strasbourg

2008              Optional course “**Involvement in university administration**”  
1 semester              Inter-university diploma co-hosted by the former three Strasbourg universities

2007              French national “ICT certificate” (C2I), level 1  
1 term                  Ministry of higher education and research

### Non-professional courses

04/2012      **Prevention & first aid** (PSC), level 1  
National federation of civil protection, France

## Scholarships, Awards & Honours

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06/15              Thesis award of the University of Strasbourg  
One of 20 awards out of approx. 300 graduates in 2014

2014              Inria post-doctoral research fellowship  
16-month fellowship at Inria

2013              University of Strasbourg temporary teaching and research fellowship  
1-year fellowship at ICube laboratory (research), and Mathematics and ICT faculty (teaching)

2013              Scholarship for the League of European Research institutes & Universities (LERU) summer on  
“Leadership & Innovation”, Paris, France  
Scholarship granted to 2-3 PhD candidates per LERU member university

2010              Doctoral research (PhD) scholarship  
French Ministry for Higher Education and Research 3-year scholarship

## Scholarships, Awards & Honours (continued)

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- 2011–2015      Ranked first of class in 2nd, 3rd (Bachelor), 4th and 5th (Masters) year at university  
First amongst around 100 students in Bachelor years, a few tens in Masters
- 06/05            Mathematics awards of the European School of Luxembourg  
Awarded to the best of approx. 300 pupils of the 2005 Baccalaureate

## Research

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### Publications

#### International journals with selection:

- 2018            **Unsupervised Deep Single-Image Intrinsic Decomposition using Illumination-Varying Image Sequences**  
Authors : L. Lettry, **K. Vanhoey**, L. Van Gool  
To appear in “Computer Graphics Forum”  
Accepted for “Pacific Graphics 2018”, acceptance rate: unknown
- 2017            **Visual Quality Assessment of 3D Models: on the Influence of Light-Material Interaction**  
Authors: **K. Vanhoey**, B. Sauvage, P. Kraemer, G. Lavoué  
Published in “ACM Transactions on Applied Perception”, vol. 15, issue 1, October 2017
- 2015            **Simplification of Meshes with Digitized Radiance**  
Authors: **K. Vanhoey**, B. Sauvage, P. Kraemer, F. Larue, J.-M. Dischler  
Published in “The Visual Computer”, vol. 31, issue 6-8, June 2015  
Accepted for “Computer Graphics International 2015”, acceptance rate: 21%.
- 2015            **Unifying Color and Texture Transfer for Predictive Appearance Manipulation**  
Authors: F. Okura, **K. Vanhoey**, A. Bousseau, A. Efros, G. Drettakis  
Published in “Computer Graphics Forum”, vol. 34, issue 4, June 2015  
Accepted for “Eurographics Symposium on Rendering 2015”, acceptance rate: 30%.
- 2014            **Local Random-Phase Noise for Procedural Texturing**  
Authors: G. Gilet, B. Sauvage, **K. Vanhoey**, J.-M. Dischler, D. Ghazanfarpour  
Published in “ACM Transactions on Graphics”, vol. 33, issue 6, November 2014  
Accepted for “ACM Siggraph Asia 2014”, acceptance rate: 18%.
- 2013            **On-the-Fly Multi-Scale Infinite Texturing from Example**  
Authors: **K. Vanhoey**, B. Sauvage, F. Larue, J.-M. Dischler  
Published in “ACM Transactions on Graphics” vol. 32, issue 6, November 2013  
Accepted for “ACM Siggraph Asia 2013”, acceptance rate: 22%.
- 2013            **Robust Fitting on Poorly Sampled Data for Surface Light Field Rendering and Image Relighting**  
Authors: **K. Vanhoey**, B. Sauvage, O. Génevaux, F. Larue, J.-M. Dischler  
Published in “Computer Graphics Forum”, vol. 32, issue 6, November 2013

#### International conferences with selection:

- 2018            **WESPE: Weakly Supervised Photo Enhancer for Digital Cameras**  
Authors : A. Ihnatov, N. Kobyshev, R. Timofte, **K. Vanhoey**, L. Van Gool  
Accepted at the CVPR workshop “New Trends in Image Restoration and Enhancement workshop and challenges on super-resolution, dehazing, and spectral reconstruction” (NTIRE) 2018
- 2018            **DARN: a Deep Adversarial Residual Network for Intrinsic Image Decomposition**  
Authors : L. Lettry, **K. Vanhoey**, L. Van Gool

## Research (continued)

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Accepted at “IEEE Winter Conference on Applications of Computer Vision” (WACV) 2018

- 2017      **DSLR-Quality Photos on Mobile Devices with Deep Convolutional Networks**  
Authors : A. Ihnatov, N. Kobyshev, R. Timofte, **K. Vanhoey**, L. Van Gool  
Accepted at “International Conference on Computer Vision” (ICCV) 2017
- 2017      **Repeated Pattern Detection using CNN Activations**  
Authors : L. Lettry, M. Perdoch, **K. Vanhoey**, L. Van Gool  
Accepted at “IEEE Winter Conference on Applications of Computer Vision” (WACV) 2017
- 2017      **Comparison of Texture Synthesis Methods for Content Generation in Ultrasound Simulation for Training**  
Authors : O. Mattausch, E. Ren, Michael Bajka, **K. Vanhoey**, O. Göksel  
Accepted at “SPIE Medical Imaging 2017”

### Presentations in international conferences with selection:

- 2017      **VarCity – the Video: the Struggles and Triumphs of Leveraging Fundamental Research Results in a Graphics Video Production**  
Authors : **K. Vanhoey**, Carlos Eduardo Porto de Oliveira, Hayko Riemenschneider, András Bódis-Szomorú, Santiago Manén, Danda Pani Paudel, Michael Gygli, Nikolay Kobyshev, Till Kroeger, Dengxin Dai, Luc Van Gool  
Accepted as a “SIGGRAPH Talk” at the “ACM SIGGRAPH 2017” conference.

### National conferences without selection :

- 2016      **Repeated Pattern Detection using CNN Activations**  
Authors : L. Lettry, M. Perdoch, **K. Vanhoey**, L. Van Gool  
In proceedings of the “29<sup>th</sup> days of the French association for computer graphics” (J•FIG) 2016
- 2010      **Simplification de maillages avec champs de lumière surfaciques**  
Authors : **K. Vanhoey**, B. Sauvage, J.-M. Dischler  
In proceedings of the “23<sup>rd</sup> days of the French association for computer graphics” (AFIG) 2010

### Manuscripts:

- 2014      **Joint treatment of geometry and radiance of 3D model digitization**  
Doctorate thesis of **K. Vanhoey**, February 2014.
- 2010      **Simplification of meshes with a light field**  
Masters thesis of **K. Vanhoey**, June 2010.

### Accepted and/or presented posters:

- 2016      **The Power of Deep Learning: The Style Transfer Example**  
Authors : Realizations by **K. Vanhoey**, with images from J.-N. Tisserant  
Presented in the “Machine Arts” exhibition of the “J•FIG” 2016 conference, December 2016, Grenoble, France
- 2013      **Simplification of triangle meshes with radiance attribute**  
Authors: **K. Vanhoey**, B. Sauvage, F. Larue, J.-M. Dischler  
Accepted at the international conference “Eurographics Symposium on Geometry Processing”, July 2013, Genoa, Italy.
- 2011      **Construction and simplification of color functions over surface meshes**  
Authors: **K. Vanhoey**, B. Sauvage, J.-M. Dischler  
Presented at the doctoral school’s poster session, September 2011, university de Strasbourg.

## Research (continued)

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### Oral communications

- 2018      **Intrinsic Image Decomposition using Deep Learning**  
– Presented at the French workshop on Rendering, February 2018, Paris, France.
- 2017      **VarCity – the Video: the Struggles and Triumphs of Leveraging Fundamental Research Results in a Graphics Video Production**  
– Presentation at the “ACM SIGGRAPH 2017” conference, August 2017, Los Angeles, USA.
- 2017      **Repeated Pattern Detection using Convolution Neural Networks’ Activations**  
– Invited talk in the company Fyusion Inc., March 2017, San Francisco, USA.  
2017      – Invited talk in the company Viorama GmbH, March 2017, Berlin, Germany.  
2016      – Presented at the annual meeting of “AFIG”, December 2016, Grenoble, France.
- 2016      **From Real Data to Virtual Copies: a Few Contributions**  
– Seminar in the “Computer Vision Lab seminar series”, June 2016, ETH Zürich, Switzerland  
2015      – Invited talk at the “Technische Universität Darmstadt” (GCC group), October 2015, Darmstadt, Germany  
2015      – Invited talk at the “Karsruhe Institute fur Technologie” (KIT, CG group), October 2015, Karsruhe, Germany  
2015      – Invited talk at the CNRS lab “I3S” (équipe Médiacoding), November 2015, Sophia-Antipolis, France  
2015      – Invited talk at the CNRS lab “LIRIS / Université Claude Bernard de Lyon” (R3AM group), December 2015, Lyon, France
- 2015      **Simplification of Meshes with Digitized Radiance**  
– Presented at the conference “Computer Graphics International”, June 2015, Strasbourg, France
- 2015      **Unifying Color and Texture Transfer for Predictive Appearance Manipulation**  
– Presented at the French workshop on Rendering, June 2015, Paris, France.
- 2014      **Joint treatment of geometry and radiance of 3D model digitization**  
– PhD defense, February 2014, Strasbourg, France  
2014      – Invited seminar at Inria Sophia-Antipolis Méditerranée, REVES & Ayin teams  
2012      – PhD follow-up at half-time, June 2012, Strasbourg, France.
- 2014      **Robust Fitting on Poorly Sampled Data for Surface Light Field Rendering and Image Relighting**  
– Invited presentation at the international conference “Eurographics symposium on Rendering”, June 2014, Lyon, France  
2013      – Presented at the French workshop on Rendering, March 2013, Paris, France.  
2013      – Presented at the French workshop on 3D shapes: from acquisition to compression, May 2013, Porquerolles, France.
- 2013      **On-the-Fly Multi-Scale Infinite Texturing from Example**  
2013      – Presented at the conference “SIGGRAPH Asia”, November 2013, Hong Kong, Hong Kong.  
2013      – Presented at the French workshop on Rendering, October 2013, Paris, France.
- 2010      **Simplification of meshes with surface light fields**  
2010      – Presented at the annual meeting of “AFIG”, November 2010, Dijon, France.  
2010      – Master’s thesis defence, June 2010, Strasbourg, France.

### Attended conferences

#### International conferences:

- 2018      ACM SIGGRAPH 2018

## Research (continued)

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- 11 – 16 August 2018, Vancouver, British Columbia, Canada.
- 2018 Eurographics symposium on Rendering 2018  
1–4 July 2018, Karlsruhe, Allemagne.
- 2018 Unite Berlin (Unity Developer Conference)  
19–21 June 2018, Berlin, Allemagne.
- 2017 ACM SIGGRAPH 2017 (presenter)  
30 July – 3 August 2017, Los Angeles, California, USA.
- 2017 IEEE Computer Vision and Pattern Recognition (CVPR)  
21–26 July 2017, Honolulu, Hawaii, USA.
- 2017 IEEE Winter Conference on Applications of Computer Vision (WACV) (presenter)  
27–29 March 2017, Santa Rosa, California, USA.
- 2016 Augmented World Expo (AWE) Europe  
18–19 October 2016, Berlin, Germany.
- 2016 ACM SIGGRAPH 2016  
24–28 July 2016, Anaheim, California, USA.
- 2015 Computer Graphics International 2015 (presenter)  
24–26 June 2015, Strasbourg, France.
- 2014 ACM SIGGRAPH Asia 2014 (non-presenting author)  
3–6 December 2014, Shenzhen, Chine.
- 2014 Eurographics symposium on Rendering 2014 (presenter)  
25–27 June 2014, Lyon, France.
- 2014 Eurographics 2014 (organizer)  
7–11 April 2014, Strasbourg, France.
- 2013 ACM Siggraph Asia 2013 (presenter)  
19–22 November 2013, Hong Kong.
- 2013 Eurographics symposium on Geometry Processing 2013 (presenter)  
3–5 July 2013, Genoa, Italy.

### National conferences and meetings:

- 2018 French workshop on Rendering (GT Rendu) (presenter)  
15 February 2018, Paris, France.
- 2016 29<sup>th</sup> days of the French association for computer graphics (J-FIG) (presenter)  
28 November–2 December 2016, Grenoble, France.
- 2015 French workshop on Rendering (GT Rendu) (presenter)  
10 June 2015, Paris, France.
- 2013 French workshop on Rendering (GT Rendu) (presenter)  
17 October 2013, Paris, France.
- 2013 French workshop on Rendering (GT Rendu) (presenter)  
8 March 2013, Paris, France.
- 2013 French workshop on 3D shapes: from acquisition to compression (presenter)  
22–24 May 2013, Porquerolles, France.
- 2011 French workshop on 3D shapes: from acquisition to compression  
26–27 avril 2011, Porquerolles, France.
- 2010 23<sup>rd</sup> days of the French association for computer graphics (AFIG) (presenter)  
17–19 November 2010, Dijon, France.

## Contributions to the scientific community

### Administrative responsibilities

- 2014 Member of the organizing committee of the “Eurographics 2014” conference  
In charge of hiring and managing student volunteers.

### Program committee

- 2016 “MIRA” track of the “Signal image technology & internet based systems” (SITIS) conference

## Research (continued)

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### Peer-review of technical papers

2017	One paper for <b>The Visual Computer</b> (TVC) journal
2017	One paper for the <b>ACM Transaction on Graphics</b> (ToG) journal
2017	One paper for the <b>Transactions on Pattern Analysis and Machine Intelligence</b> (TPAMI) journal
2017	One paper for the “ <b>ACM Siggraph</b> ” conference conference published as ACM Transactions on Graphics, vol. 36, no. 4.
2017	One paper for the “ <b>Computer Vision and Pattern Recognition</b> ” (CVPR) conference
2017	One paper for the <b>Computer Graphics &amp; Applications</b> (CG&A) journal
2017	One paper for the <b>Journal of Electronic Imaging</b> (JEI) journal
2016	One paper of the “ <b>Computer Graphics Forum</b> ” (CGF) journal
2016	One paper in the “ <b>European Conference on Computer Vision</b> ” (ECCV)
2015	Two papers (2 revision cycles each) of “ <b>The Visual Computer</b> ” Journal
2014	One paper for the conference “ <b>Pacific Graphics 2014</b> ” conference published as Computer Graphics Forum, vol. 33, issue. 7.

### Research societies' memberships

2017	IEEE
2016–2017	ACM SIGGRAPH
2012–2017	French Computer Science Society (SIF) Promotes computer science in society and in children's education in particular.
2010, 2016	French Association of Computer Graphics (AFIG)
2012–2015	Eurographics The European society for Computer Graphics.

### Research grant calls

2012	European Space Agency: Summer of Code in Space Obtained a 3-month internship grant for a student.
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## Teaching in higher education

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### Teaching in classes (total of 425H)

#### Polytech Nice Sophia-Antipolis:

2015	<b>C language</b>
1 semester	Person in charge: Vincent GRANET Audience: 3 <sup>rd</sup> year of the “electronics” department Number of hours: 32H (mixed sessions: lectures & practical sessions)

#### Mathematics & computer science faculty, university of Strasbourg:

2014	<b>Databases 1</b>
1 semester	Person in charge: Kenneth VANHOEY, other teaching staff: Pierre TELLIER Audience: B.Sc. 2 in computer science, B.Sc. 3 in mathematics & economy, M.Sc. 1 chemo-informatics Number of hours: 46H (lectures + practical sessions)
2013-2014	<b>Object-oriented programming</b>
2 semesters	Person in charge: Sophie LÈBRE then Christian MICHEL Audience: B.Sc. 2 in computer science, 1 <sup>st</sup> year Master chemo-informatics Number of hours: 52H (practical sessions)
2013	<b>Object-oriented programming 2</b>
1 semester	Person in charge: Benoit SONNTAG Audience: B.Sc. 3 in computer science



## Teaching in higher education (continued)

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Number of hours: 12H (practical sessions)

- 2013  
1 semester      **Algorithmics & programming 1**  
Person in charge: Basile SAUVAGE  
Audience: B.Sc. 1 in mathematics & computer science  
Number of hours: 82H (mixed sessions: lectures & practical courses)
- 2010–2013  
4 semesters    **Methodology for university studies (MTU)**  
Person in charge: Nicolas PASSAT, Nicolas MAGAUD then Basile SAUVAGE  
Audience: B.Sc. 1 in mathematics & computer science  
Number of hours: 37H (mixed sessions: lectures & practical courses)
- 2011–2012  
3 semesters    **Distributed programming**  
Person in charge: Benoit SONNTAG  
Audience: B.Sc. 3 in computer science  
Number of hours: 78H (practical sessions)
- 2010-2011  
2 semesters    **Databases 2**  
Person in charge: Gabriel FREY  
Audience: B.Sc. 3 in computer science  
Number of hours: 44H (practical sessions)

### University of Strasbourg:

- 2009  
1 semester    **ICT certificate (C2I)**  
Person in charge: Pascal MATHIS  
Audience: B.Sc. students (of all disciplines)  
Number of hours: 36H (tutored sessions)

### Notable responsibilities

- 2014            Head of the “Databases 2” course. In charge of lectures, of one of two groups for practical sessions, and of coordination of teaching staff.  
Mathematics & computer science faculty, university of Strasbourg

### Student & PhD candidate supervision

(Some of these could have been satisfyingly included in the “research activities” section too)

#### PhD supervision

- 2016-            Subject : **Analysis, detection and 3D reconstruction of landmark buildings**  
Student : Nikolay KOBYSHEV (PhD candidate)  
PhD director : Pr. Luc VAN GOOL  
Context : PhD at Computer Vision Laboratory, ETH Zürich.
- 2016-            Subject : **Understanding of the image formation process through deep learning**  
Student : Louis LETTRY (PhD candidate)  
PhD director : Pr. Luc VAN GOOL  
Context : PhD at Computer Vision Laboratory, ETH Zürich.

#### Master thesis supervision

- 2017            Sujet : **Real-time recurrent neural networks for detection on smartphones**  
Co-encadrement: Maximilian SCHNEIDER, CTO Viorama GmbH  
Étudiant : Tijmen VERHULSDONCK (MSc. 2 Embedded Systems, Kungliga Tekniska, Stockholm, Sweden)  
Cadre : R&D master thesis at Viorama GmbH, Berlin, Germany.

## Teaching in higher education (continued)

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2017 Subject : **Photo Quality Enhancement with Deep Convolutional Neural Networks**  
Co-adviser: Nikolay KOBYSHEV  
Student : Andrey IHNATOV (M.Sc.2 Computer Science, ETH Zürich)  
Context : Research master thesis, ETH Zürich.

### Master students semester project supervision

2017 Subject: **Creating an annotated texture database for automatic texture model inferences from exemplars.**  
Student: Andreea LUTAC (M.Sc. 1 in Robotics, Systems and Control, ETH Zürich)  
Context: Semester thesis ; weekly meetings ; evaluation by advisers.

2016 Subject: **Summarizing façade textures through texture synthesis**  
Student: Dario FUOLI (M.Sc. 1 Information Technology & Electr. Engineering, ETH Zürich)  
Context: Semester thesis ; weekly meetings ; evaluation by advisers.

2016 Subject: **Where is this webcam located?**  
160H Co-adviser: Danda Pani PAUDEL  
Student: Samuel KEUSCH (M.Sc. 2 computer science & engineering, ETH Zürich)  
Context: Semester thesis ; weekly meetings ; evaluation by advisers.

2014 Subject: **Multi-scale textures: study of colour transitions**  
150H Co-adviser: Basile SAUVAGE  
Student: Luis MENDOZA (M.Sc. 1 computer graphics)  
Context: Initiation to research project (2<sup>nd</sup> semester) ; regular meetings on student's demand ; evaluation by research report and presentation.

2014 Subject: **Multi-scale textures: study of feature cut-outs**  
150H Co-adviser: Basile SAUVAGE  
Student: Julien VOGEL (M.Sc. 1 computer graphics)  
Context: Initiation to research project (2<sup>nd</sup> semester) ; regular meetings on student's demand ; evaluation by research report and presentation.

2013 Subject: **Software for multi-scale texture experimentation**  
75H Co-adviser: Basile SAUVAGE et Jean-Michel DISCHLER  
Student: Jonathan HAEHNEL (M.Sc. 2 Computer Graphics)  
Context: "Development" project (1<sup>st</sup> semester) ; regular meetings on student's demand ; evaluation by research report and presentation.

2013 Subject: **Study of visualisation of colour attributes on the surface**  
150H Co-adviser: Basile SAUVAGE  
Student: Jacques KAISER (M.Sc. 1 computer graphics)  
Context: Initiation to research project (2<sup>nd</sup> semester) ; regular meetings on student's demand ; evaluation by research report and presentation.

2011 Subject: **Tools for creation and visualisation of a light field.**  
75H Co-adviser: Basile SAUVAGE  
Student: Armelle BAUER (M.Sc. 2 Computer Graphics)  
Context: "Development" project (3<sup>rd</sup> semester) ; regular meetings on student's demand ; evaluation by research report and presentation.

### Student internships supervision

2015 Subject : **CUDA parallelisation for procedural textures**  
3 months Co-adviser : George DRETTAKIS  
Student : Giorgos KOPANAS (Engineering School/Master Student, University of Thessaly, Greece)

## Teaching in higher education (continued)

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Context : voluntary internship ; spontaneous meetings ; non-formal evaluation.

- 2014  
1 month  
Subject: **Filtering of radiance functions**  
Co-adviser: Basile SAUVAGE  
Student: Kévin GAUDET (B.Sc. 3 in computer science, university of Strasbourg)  
Context: voluntary internship ; regular meetings on student's demand ; non-formal evaluation.
- 2014  
1 month  
Subject: **Development of a user interface for visual comparison of 3D objects**  
Co-adviser: Basile SAUVAGE  
Student: Pierre LESPINGAL (ENSIIE Strasbourg, 1<sup>st</sup> year: equiv. B.Sc. 3)  
Context: "internship" course (2<sup>nd</sup> semester) ; regular meetings on student's demand ; evaluation by research report and presentation.
- 2014  
2 months  
Subject: **Initiation to research & graphical design tools**  
Co-adviser: Frédéric LARUE  
Student: Jérémie WOJTOWICZ (B.Sc. 1)  
Context: voluntary internship ; weekly meeting ; non-formal evaluation.
- 2012  
3 months  
Subject: **Reorganisation and trajectory management tool for CGoGN**  
Co-advisers: Pierre KRAEMER, Sylvain THÉRY, Lionel UNTEREINER  
Student: Alexandre HURSTEL (Masters holder)  
Context: voluntary internship with grant from the European Space Agency ("summer of code in space" call) ; meeting every other week with at least one supervisor ; evaluation of intern and supervisors by the ESA.
- 2011  
2 months  
Subject: **Tool for visualisation of a light field**  
Co-adviser: Basile SAUVAGE  
Student: Nicolas AUBRY (M.Sc. 1)  
Context: voluntary internship ; weekly meeting ; non-formal evaluation.

### Voluntary activities

- 2017  
Présentation de la filière "informatique & électronique" et du laboratoire de vision  
Journée universitaires – ETH Zürich
- 2017  
Presentation of the studies "Information Technology and Electronics" and the "Computer Vision Laboratory" to high-school pupils.  
Study information days (studieninfotage) – ETH Zürich
- 2016–2017  
Presentation of research internship possibilities at the "Computer Vision Laboratory".  
"Students meet lab", Department of Information Technology and Electronics – ETH Zürich
- 2005–2012  
Presentation of the possibilities offered by the mathematics & computer science faculty to high-school pupils.  
Regional days of presentation of higher education studies (JU) – Strasbourg
- 2012  
Presentation "What is doing a PhD & being a researcher"  
Middle-school pupils visiting the university of Strasbourg
- 12/2011  
Half a day of presentation in a middle/high school: presentation of current occupation and route towards it.  
Haguenu's information and orientation centre (CIO)

## Voluntary work & administrative responsibilities

### Elected representative terms

- 2012–2014 Elected at the **research commission** of the university of Strasbourg.  
Representative of the PhD candidates of “Science & Technologies” – “Early-stage researchers” list
- 2009–2011 Elected at the **executive committee of the faculty of mathematics & computer science** of the university of Strasbourg.  
Representative of computer science graduate students, “ADEM – AIUS” list
- 2007–2009 Elected at the **executive committee of the faculty of mathematics & computer science** of the university of Strasbourg.  
Representative of the undergraduate students, “ADEM – AIUS” list

### Participations in elections (without election)

- 2015 Candidate for the national council for higher education and research (**CNESER**) elections.  
Representative of “Researchers” of the public research organisations (EPST), chief candidate on “CJC – ANDès” list
- 2010 Candidate for the partial election of the **scientific council** of the university of Strasbourg.  
Representative of non-permanent teaching staff, chief candidate of “Early-stage researchers”

### Representative terms by co-optation

- 2014 Seat at the commission of **digital affairs** of the university of Strasbourg.  
Representative of the early-stage researchers
- 2012–2014 Seat at the **support to student projects** council of the university of Strasbourg (CAPE).  
Representative of the sports association of the university of Strasbourg
- 10/2012 Contributed to the “research” part of the **university project** prior to its evaluation by the national agency for evaluations of higher education and research (“AERES”).  
Representative of PhD candidates
- 10/2012 Contributed to the “**congress of higher education and research**” launched by the French government.  
Representative of PhD candidates
- 2010–2012 Invited seat at the **research commission** (previously “scientific council”) of the university of Strasbourg.  
Representative of the PhD unions of the university of Strasbourg
- 2008–2009 **Political head of the “sports” project** for the new university of Strasbourg, resulting from a fusion of three Strasbourg universities.  
Co-manager of the transition phase from three sports services to a unique new service
- 11/2008 Manager of the student unions for the organisation of the “**Erasmus day**”.  
Delegation of power from the international relations service of the university Louis Pasteur de Strasbourg
- 2006–2010 **Policy officer of the vice-president in charge of “campus life”** of the university Louis Pasteur/university of Strasbourg.  
VP’s delegation of power for matters regarding sports at university

### Unions

- 2010–2015 Active member: in charge of **doctoral politics, vice-president**, web-master

## Voluntary work & administrative responsibilities (continued)

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Addal: union of PhD candidates and PhD holders of Alsace

- 2009–2010    **Co-founder and treasurer**  
IxESN: International exchange Erasmus student network of Strasbourg
- 2008–2009    Vice-president in charge of **foreign students**  
AFGES: Strasbourg federative students union
- 2008–...    **Co-founder and vice-president**  
AS-UdS: Sports association of the university of Strasbourg
- 2007–2010    Active member: in charge of **foreign students** ; vice-president in charge of the students of the Illkirch campus  
AIUS: Union of computer science students of the university of Strasbourg
- 2005–2010    Active member: in charge of lecture notes distribution, **treasurer, vice-president**, in charge of **foreign students**, honorary member  
ADEM: Union of mathematics students

## Languages

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Dutch	Mother tongue
French	Bilingual
English	Fluent working proficiency – CLES B2 (10/2008) – TOEIC listening & reading score: 970/990 (04/2013)
Luxembourgish	Basic oral knowledge – CLES A2 (07/2012)
German	Basic oral knowledge