

## Daniele Panozzo

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### CONTACT INFORMATION

**Full address:**  
Courant Institute of Mathematical Sciences  
New York University  
60 5th Avenue, 5th floor  
New York, NY 10011  
**Tel:** +1 212 998 3208  
**Email:** [panozzo@nyu.edu](mailto:panozzo@nyu.edu)  
**Website:** <http://cs.nyu.edu/~panozzo/>

### RESEARCH INTERESTS

Geometric Modeling, Discrete Differential Geometry, Interactive Graphics, Architectural Geometry

### CURRENT OCCUPATION

**Assistant Professor**  
Courant Institute of Mathematical Sciences, New York University, USA

### EDUCATION

**Senior Researcher**  
ETH Zurich, Switzerland  
October 2013 - January 2016

**Postdoctoral Researcher**  
ETH Zurich, Switzerland  
May 2012 - September 2013

**PhD in Computer Science,**  
May 2012, University of Genoa, DISI, Italy,  
**Thesis title:** *"From irregular meshes to structured models"*

**Master of Computer Science,**  
October 2008, University of Genoa, DISI, Italy,  
**Grade:** 110/110 summa cum laude  
**Thesis title:** *"News visualization on maps"*

**Bachelor of Computer Science,**  
September 2007, University of Genoa, DISI, Italy,  
**Grade:** 110/110 summa cum laude  
**Thesis title:** *"Selectively refinable subdivision meshes"*

**High School Degree,**  
ITIS Galileo Ferraris, Savona, Italy,  
July 2004  
**Grade:** 100/100

### AWARDS

<b>Associate Editor of the Year</b> for the journal Computers and Graphics,	2017
<b>SNF CAREER Award</b> Coupling Geometric Acquisition and Digital Fabrication,	2017
Eurographics <b>Junior Fellow</b> ,	2017
SGP 2015 <b>Software Award</b> for libigl,	2015
Eurographics <b>Young Researcher Award</b> ,	2015
SGP 2014 <b>Best Paper Award</b> ,	2014
Eurographics <b>Best PhD Thesis Award</b> ,	2013

	Three years fellowship awarded from the University of Genoa to support my PhD studies.	January 2009
	Fellowship from ISICT ( <a href="http://www.isict.it">www.isict.it</a> ) to support my Master studies .	2007
<b>FUNDING</b>	NSF Elements:Software 1835712 (joint with Denis Zorin), USD 600,000	2018-2021
	ONR SBIR 2018 (COREFORM), USD 60,000	2018
	Ntopology Gift (joint with Denis Zorin), USD 50,000	2017
	NSF Career Award, USD 554,000	2017-2021
	Adobe Software Gift	2017-2019
	Adobe Gift, USD 21,500	2017
	Angle Technologies Gift, USD 10,000	2017
	Ntopology Gift (joint with Denis Zorin), USD 75,000	2016
<b>PATENTS</b>	“Sketch-based generation and editing of quad meshes” (US 9349216)	2016
<b>TEACHING EXPERIENCE</b>	<b>Lecturer</b> Geometry Processing, New York University, NY, USA	Spring 2018
	<b>Lecturer</b> Computer Graphics, New York University, NY, USA	Fall 2018
	<b>Lecturer</b> Geometry Processing, New York University, NY, USA	Spring 2017
	<b>SIGGRAPH Asia 2017 Course</b> , LIBIGL: A C++ Library for Geometry Processing without a Mesh Data Structure, Bangkok, Thailand,	Summer 2017
	<b>SGP 2017 Tutorial</b> , LIBIGL: A C++ Library for Geometry Processing without a Mesh Data Structure, London, UK,	Summer 2017
	<b>SIGGRAPH Asia 2016 and SIGGRAPH 2017 Course</b> , Directional Field Synthesis, Design, and Processing, Los Angeles, CA	Summer 2017
	<b>Lecturer</b> Computer Graphics, New York University, NY, USA	Fall 2016
	<b>Lecturer</b> Shape Modeling and Geometry Processing, ETH, Zurich, Switzerland	Fall 2015
	<b>Teaching Assistant</b> Shape Modeling and Geometry Processing, ETH, Zurich, Switzerland	Fall 2014
	<b>SGP 2014 Tutorial</b> , LIBIGL: A C++ Library for Geometry Processing without a Mesh Data Structure, Cardiff, UK,	Summer 2014
	<b>Teaching Assistant</b> Shape Modeling and Geometry Processing, ETH, Zurich, Switzerland	Fall 2013
	<b>Teaching Assistant</b> Computer Graphics, ETH, Zurich, Switzerland	Winter 2013
	<b>Teaching Assistant</b> Computer Graphics, ETH, Zurich, Switzerland	Winter 2012
	<b>Teaching Assistant</b> Shape Modeling and Geometry Processing, ETH, Zurich, Switzerland	Fall 2012
	<b>Teaching Assistant</b> Calculus, University of Genoa, DISI, Italy	Spring 2010
	<b>Teaching Assistant</b> Geometric Algorithms, University of Genoa, DISI, Italy	Fall 2008, Fall 2009
	<b>Teaching Assistant</b> Interactive Graphics, University of Genoa, DISI, Italy	Fall 2008, Fall 2009

<b>Research Assistant</b> University of Genoa, DISI, Italy	Winter 2008
<b>Teaching Assistant</b> Linear Algebra, University of Genoa, DISI, Italy	Fall 2007
<b>Laboratory Technical Assistant</b> ITIS - Galileo Ferraris, Savona, Italy	Fall 2005

## PUBLICATIONS

1. **Decoupling Simulation Accuracy from Mesh Quality**,  
Teseo Schneider, Yixin Hu, Jeremie Dumas, Xifeng Gao, Daniele Panozzo, Denis Zorin,  
ACM Transaction on Graphics (SIGGRAPH Asia), 2018
2. **Tetrahedral Meshing in the Wild**,  
Yixin Hu, Qingnan Zhou, Xifeng Gao, Alec Jacobson, Denis Zorin, Daniele Panozzo,  
ACM Transaction on Graphics (SIGGRAPH), 2018
3. **Stitch Meshing**,  
Kui Wu, Xifeng Gao, Zachary Ferguson, Daniele Panozzo, Cem Yuksel,  
ACM Transaction on Graphics (SIGGRAPH), 2018
4. **Generalized Motorcycle Graphs for Imperfect Quad-Dominant Meshes**,  
Nico Schertler, Daniele Panozzo, Stefan Gumhold, Marco Tarini,  
ACM Transaction on Graphics (SIGGRAPH), 2018
5. **Axis-Aligned Height-Field Block Decomposition of 3D Shapes**,  
Alessandro Muntoni, Marco Livesu, Riccardo Scateni, Alla Sheffer, Daniele Panozzo,  
ACM Transaction on Graphics (TOG), 2018
6. **Surface Networks**,  
Ilya Kostrikov, Zhongshi Jiang, Daniele Panozzo, Denis Zorin, Joan Bruna,  
CVPR (Oral Presentation), 2018
7. **Prototyping Geometry Processing Research In C++**,  
Alec Jacobson, Daniele Panozzo,  
SIGGRAPH Asia Course, SGP Course, 2017
8. **Simplicial Complex Augmentation Framework for Bijective Maps**,  
Zhongshi Jiang, Scott Schaefer, Daniele Panozzo,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2017)
9. **Robust Structure Simplification for Hex Re-meshing**,  
Xifeng Gao, Daniele Panozzo, Wenping Wang, Zhigang Deng, Guoning Chen,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2017)
10. **Position-Based Tensegrity Design**,  
Nico Pietroni, Marco Tarini, Amir Vaxman, Daniele Panozzo, Paolo Cignoni,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2017)
11. **Autocuts: Simultaneous Distortion and Cut Optimization for UV Mapping**,  
Roi Poranne, Marco Tarini, Sandro Huber, Daniele Panozzo, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2017)
12. **T-junctions in spline surfaces**,  
Kestutis Karciauskas, Daniele Panozzo, Jorg Peters,  
ACM Transactions on Graphics 2017
13. **Robust Hex-Dominant Mesh Generation using Field-Guided Polyhedral Agglomeration**,  
Xifeng Gao, Wenzel Jakob, Marco Tarini, and Daniele Panozzo,  
ACM Transactions on Graphics 2017 (Proceedings of SIGGRAPH 2017)

14. **Field-Aligned Online Surface Reconstruction**,  
Nico Schertler, Marco Tarini, Wenzel Jakob, Misha Kazhdan, Stefan Gumhold, Daniele Panozzo,  
ACM Transactions on Graphics 2017 (Proceedings of SIGGRAPH 2017)
15. **Scalable Locally Injective Maps**,  
Michael Rabinovich, Roi Poranne, Daniele Panozzo, Olga Sorkine-Hornung,  
ACM Transactions on Graphics, 2017
16. **How Was It Made? Rig Animation with a Tangible and Modular Input Device**,  
Oliver Glauser, Benedek Vartok, Alex (Wan-Chun) Ma, Daniele Panozzo, Alec Jacobson, Otmar Hilliges, Olga Sorkine-Hornung,  
Invited article ACM Interactions, 2017
17. **Blended barycentric coordinates**,  
Dmitry Anisimov, Daniele Panozzo, Kai Hormann,  
Computer Aided Geometric Design, 2017
18. **Directional Field Synthesis, Design, and Processing**,  
Amir Vaxman, Marcel Campen, Olga Diamanti, Mirela Ben-Chen, David Bommes, Klaus Hildebrandt, Daniele Panozzo,  
Course, SIGGRAPH ASIA 2016 and SIGGRAPH 2017
19. **Digitally reconstructing the Great Parchment Book: 3D recovery of fire-damaged historical documents**,  
Kazim Pal, Nicola Avery, Pete Boston, Alberto Campagnolo, Caroline De Stefani, Helen Matheson-Pollock, Daniele Panozzo, Matthew Payne, Christian Schüller, Chris Sanderson, Chris Scott, Philippa Smith, Rachael Smither, Olga Sorkine-Hornung, Ann Stewart, Emma Stewart, Patricia Stewart, Melissa Terras, Bernadette Walsh, Laurence Ward, Liz Yamada, Tim Weyrich,  
Digital Scholarship in the Humanities, 2016
20. **Confocal reference free traction force microscopy**,  
Martin Bergert, Tobias Lendenmann, Manuel Zundel, Alexander E. Ehret, Daniele Panozzo, Patrizia Richner, David K. Kim, Stephan J.P. Kress, David J. Norris, Olga Sorkine-Hornung, Edoardo Mazza, Dimos Poulikakos, Aldo Ferrari,  
Nature Communications, 2016
21. **Rig Animation with a Tangible and Modular Input Device**,  
Oliver Glauser, Benedek Vartok, Alex (Wan-Chun) Ma, Daniele Panozzo, Alec Jacobson, Otmar Hilliges, Olga Sorkine-Hornung,  
UIST 2016 Demo
22. **Image Content Retargeting**,  
Alessandro Artusi, Francesco Banterle, Tunc Ozan Aydin, Daniele Panozzo, Olga Sorkine-Hornung,  
BOOK A K Peters/CRC Press
23. **Computational Thermoforming**,  
Christian Schüller, Daniele Panozzo, Anselm Grundhofer, Henning Zimmer, Evgeni Sorkine, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH, 2016)
24. **Rig Animation with a Tangible and Modular Input Device**,  
Oliver Glauser, Alex (Wan-Chun) Ma, Daniele Panozzo, Alec Jacobson, Otmar Hilliges, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH, 2016)
25. **Directional Field Synthesis, Design, and Processing**,  
Amir Vaxman, Marcel Campen, Olga Diamanti, Daniele Panozzo, David Bommes,

- Klaus Hildebrandt, Mirela Ben-Chen,  
State-of-the-art Report (Eurographics 2016)
26. **Instant Field-Aligned Meshes**,  
Wenzel Jakob, Marco Tarini, Daniele Panozzo, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2015)
  27. **Texture Mapping Real-World Objects with Hydrographics**,  
Daniele Panozzo, Olga Diamanti, Sylvain Paris, Marco Tarini, Evgeni Sorkine,  
Olga Sorkine-Hornung,  
SGP 2015
  28. **Integrable PolyVector Fields**,  
Olga Diamanti, Amir Vaxman, Daniele Panozzo, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH, 2015)
  29. **Data-Driven Interactive Quadrangulation**,  
Giorgio Marcias, Kenshi Takayama, Nico Pietroni, Daniele Panozzo, Olga Sorkine-  
Hornung, Enrico Puppo, Paolo Cignoni,  
ACM Transactions on Graphics (SIGGRAPH, 2015)
  30. **Demystifying Quadrilateral Remeshing**,  
Daniele Panozzo,  
IEEE Computer Graphics and Applications, 2015
  31. **Appearance-mimicking surfaces**,  
Christian Schüller, Daniele Panozzo, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2014)
  32. **Assembling self-supporting structures**,  
Mario Deuss, Daniele Panozzo, Emily Whiting, Yang Liu, Philippe Block, Olga  
Sorkine-Hornung, Mark Pauly,  
ACM Transactions on Graphics (SIGGRAPH Asia, 2014)
  33. **Frame Fields: Anisotropic and Non-Orthogonal Cross Fields**,  
Daniele Panozzo, Enrico Puppo, Marco Tarini, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH, 2014)
  34. **Tangible and Modular Input Device for Character Articulation** Alec Jacob-  
son, Daniele Panozzo, Oliver Glauser, Cedric Pradalier, Otmar Hilliges, Olga  
Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH, 2014)
  35. **LIBIGL: A C++ Library for Geometry Processing without a Mesh Data Struc-  
ture**,  
Daniele Panozzo, Alec Jacobson,  
SGP 2014 Graduate School
  36. **Designing N-PolyVector Fields with Complex Polynomials**,  
Olga Diamanti, Amir Vaxman, Daniele Panozzo, Olga Sorkine-Hornung,  
SGP 2014 (*Best Paper Award*)
  37. **Pattern-Based Quadrangulation for N-Sided Patches**,  
Kenshi Takayama, Daniele Panozzo, Olga Sorkine-Hornung,  
SGP 2014
  38. **Best-Fit Thrust Network Analysis: Rationalization of Freeform Meshes**,  
Tom Van Mele, Daniele Panozzo, Olga Sorkine-Hornung, Philippe Block,  
Book Chapter in Shell Structures for Architecture: Form Finding and Optimiza-  
tion

39. **Accurate and Efficient Lighting for Skinned Models**,  
Marco Tarini, Daniele Panozzo, Olga Sorkine-Hornung,  
Computer Graphics Forum (EUROGRAPHICS 2014)
40. **Content-Aware Surface Parameterization for Interactive Restoration of Historical Documents**,  
Kazim Pal, Christian Schüller, Daniele Panozzo, Olga Sorkine-Hornung, Tim Weyrich,  
Computer Graphics Forum (EUROGRAPHICS 2014)
41. **Object Detection and Classification from Large-Scale Cluttered Indoor Scans**,  
Oliver Mattausch, Daniele Panozzo, Claudio Mura, Olga Sorkine-Hornung, Renato Pajarola,  
Computer Graphics Forum (EUROGRAPHICS 2014)
42. **Mobile Image Retargeting**,  
Daniel Graf, Daniele Panozzo, Olga Sorkine-Hornung,  
Vision, Modeling and Visualization 2013 (VMV 2013)
43. **Designing Unreinforced Masonry Models**,  
Daniele Panozzo, Philippe Block, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH 2013)
44. **Weighted Averages on Surfaces**,  
Daniele Panozzo, Ilya Baran, Olga Diamanti, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH 2013)
45. **Sketch-Based Generation and Editing of Quad Meshes**,  
Kenshi Takayama, Daniele Panozzo, Alexander Sorkine-Hornung, Olga Sorkine-Hornung,  
ACM Transactions on Graphics (SIGGRAPH 2013)
46. **Locally Injective Mappings**,  
Christian Schüller, Ladislav Kavan, Daniele Panozzo, Olga Sorkine-Hornung,  
SGP 2013
47. **Consistent Volumetric Discretizations Inside Self-Intersecting Surfaces**,  
Leonardo Sacht, Alec Jacobson, Daniele Panozzo, Christian Schüller, Olga Sorkine-Hornung,  
SGP 2013
48. **Animation-Aware Quadrangulation**,  
Giorgio Marcias, Nico Pietroni, Daniele Panozzo, Enrico Puppo, Olga Sorkine-Hornung,  
SGP 2013
49. **Fields on Symmetric Surfaces**,  
Daniele Panozzo, Yaron Lipman, Enrico Puppo, Denis Zorin,  
ACM Transactions on Graphics (SIGGRAPH 2012)
50. **Robust Interactive Image Retargeting via Axis-Aligned Deformation**,  
Daniele Panozzo, Ofir Weber, Olga Sorkine,  
Eurographics, 2012
51. **Patchwork Terrains**,  
Luigi Rocca, Daniele Panozzo, Enrico Puppo,  
International Conference on Computer Graphics Theory and Applications, 2012
52. **Fast neighborhood search on polygonal meshes**,  
Luigi Rocca, Nikolas De Giorgis, Daniele Panozzo, Enrico Puppo,  
Eurographics Italian Chapter, 2011

53. **Interference Aware Geometric Modeling**,  
David Harmon, Daniele Panozzo, Olga Sorkine, Denis Zorin,  
ACM Transactions on Graphics, (SIGGRAPH Asia 2011)
54. **Simple Quad Domains for Field Aligned Mesh Parametrization**,  
Marco Tarini, Enrico Puppo, Daniele Panozzo, Nico Pietroni, Paolo Cignoni,  
ACM Transactions on Graphics, (SIGGRAPH Asia 2011)
55. **Automatic Construction of Quad-Based Subdivision Surfaces using Fitmaps**,  
Daniele Panozzo, Enrico Puppo, Marco Tarini , Nico Pietroni , Paolo Cignoni,  
IEEE Transactions on Visualization and Computer Graphics, 2011
56. **Implicit Hierarchical Quad-Dominant Meshes**,  
Daniele Panozzo, Enrico Puppo,  
Computer Graphics Forum, 2011
57. **Adaptive quad mesh simplification**,  
Alessandro Bozzo, Daniele Panozzo, Enrico Puppo, Nico Pietroni, Luigi Rocca,  
Eurographics Italian Chapter 2010,  
Genoa, Italy, November 18-19, 2010.
58. **Efficient Multi-scale Curvature and Crease Estimation**,  
Daniele Panozzo, Enrico Puppo, Luigi Rocca,  
In Proceedings of Computer Graphics, Computer Vision and Mathematics, Brno,  
Czech Republic, September 7-10, 2010
59. **A Dimension-Independent Data Structure for Simplicial Complexes**,  
Leila De Floriani, Annie Hui, Daniele Panozzo, David Canino,  
In Proceedings of the 19th International Meshing Roundtable, Chattanooga,  
Tennessee, October 3-6, 2010
60. **Adaptive LOD Editing of Quad Meshes**,  
Daniele Panozzo, Enrico Puppo,  
In Proceedings of the 7th international Conference on Computer Graphics, Virtual Reality, Visualisation and interaction in Africa, Franschhoek, South Africa,  
June 21 - 23, 2010 (*Best Paper Award*)
61. **Practical quad mesh simplification**,  
Marco Tarini , Nico Pietroni , Paolo Cignoni , Daniele Panozzo, Enrico Puppo,  
Computer Graphics Forum, (EUROGRAPHICS 2010)
62. **Computing and Visualizing a Graph-Based Decomposition for Non-Manifold Shapes**,  
Leila De Floriani, Daniele Panozzo, Annie Hui,  
In Proceedings of the 7th IAPR-TC-15 International Workshop on Graph-Based Representations in Pattern Recognition, 2009
63. **Rgb Subdivision**,  
Enrico Puppo, Daniele Panozzo,  
IEEE Transactions on Visualization and Computer Graphics, 2009
64. **Interpolatory Adaptive Subdivision for Mesh Lod Editing**,  
Daniele Panozzo, Enrico Puppo,  
In Proceedings of the Fourth International Conference on Computer Graphics Theory and Applications, Lisbon, Portugal, February 5-8, 2009
65. **NewsStand: A New View on News**  
Benjamin Teitler, Michael Lieberman, Daniele Panozzo, Jagan Sankaranarayanan, Hanan Samet, Jon Sperling  
In Proceedings of the 16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Irvine, CA, November 2008.  
(*ACM SIGSPATIAL GIS 2008 Best Paper Award*)

**KEYNOTES:**

**First Steps Toward Black-Box Analysis,**  
Workshop on Shape Understanding and Analysis, USTC, Hefei, China, 06/07/2018

**Generalized Tangent Vector Fields,**  
SIBGRAPI 2017, Niteroi, Brasil, 18/10/2017

**Generalized Tangent Vector Fields,**  
32nd Spring conference on Computer Graphics 2016, Smolenice, Slovakia, 28/04/2016

**Fabrication-Aware Geometry Processing,**  
MEIS 2015, Kyushu University, Fukuoka, Japan, 27/09/2015

**INVITED TALKS:**

**Fabrication-Aware Geometry Processing,**  
Peking University, Beijing, China, 09/07/2018

**Introduction to Geometry Processing,**  
USTC, Hefei, China, 05/07/2018

**First Steps Toward Black-Box Analysis,**  
Beijing Film Academy, Beijing, China, 03/07/2018

**Robust Meshing,**  
The Fields Institute, Toronto, Canada, 02/05/2018

**Fabrication-Aware Geometry Processing,**  
NYU NASC, New York, USA, 26/01/2018

**Fabrication-Aware Geometry Processing,**  
ICES, Austin, USA, 09/11/2017

**Fabrication-Aware Geometry Processing,**  
IMPA, Rio De Janeiro, Brasil, 16/10/2017

**Fabrication-Aware Geometry Processing,**  
Rutgers ECE Colloquium, New Jersey, USA, 04/10/2017

**Robust Hex-Dominant Mesh Generation using Field-Guided Polyhedral Agglomeration,**  
Isogeometric Analysis 2017, Pavia, Italy, 13/09/2017

**Fabrication-Aware Geometry Processing,**  
Fabrication workshop at CAD/Graphics 2017, Zhangjiajie, China, 24/08/2017

**Robust Hexahedral and Hex-Dominant Meshing,**  
Zhejiang University, Hangzhou, China, 22/08/2017

**Robust Hex-Dominant Mesh Generation using Field-Guided Polyhedral Agglomeration,**  
University of British Columbia, Vancouver, Canada, 26/07/2017

**Computational Design in Computer Graphics,**  
University of Cagliari, Cagliari, Italy, 07/07/2017



**Geometry Processing using libigl – a Hands-On Tutorial,**  
University College London, London, United Kingdom, 01/07/2017

**Rig Animation with a Tangible and Modular Input Device,**  
Computational Interactivity, Schloss Dagstuhl, Germany, 07/06/2017

**Generalized Tangent Vector Fields,**  
Stony Brook University, New York, 04/11/2016

**Generalized Tangent Vector Fields,**  
Dresden University of Technology, Dresden, Germany, 17/06/2016

**Texturing Real World Objects,**  
Gradifab 2016, Lisbon, Portugal, 08/05/2016

**Generalized Tangent Vector Fields,**  
University of Utah, Salt Lake City, US, 18/04/2016

**Generalized Tangent Vector Fields,**  
BYU, Provo, US, 14/04/2016

**Fabrication-Aware Geometry Processing,**  
Christian Kerez Zurich AG, Zurich, Switzerland, 23/10/2015

**Texture Mapping Real-World Objects with Hydrographics,**  
Workshop on Interactive Geometry, Tokyo University, Tokyo, Japan, 30/10/2015

**Geometry processing in the era of parallel computing,**  
International Geometry Workshop 2015, Seggau, Austria, 10/07/2015

**Generalized Tangent Vector Fields for Fabrication-Aware Geometry Processing,**  
University College London, London, United Kingdom, 27/04/2015

**Generalized Tangent Vector Fields for Fabrication-Aware Geometry Processing,**  
CS Colloquium, New York University, New York, US, 13/04/2015

**Generalized Tangent Vector Fields for Fabrication-Aware Geometry Processing,**  
UT Austin, Austin, US, 09/04/2015

**Generalized Tangent Vector Fields for Fabrication-Aware Geometry Processing,**  
Nanyang University, Singapore, 11/02/2015

**Tangible and Modular Input Device for Character Articulation,**  
Hong Kong University, Hong Kong, China 8/12/2014

**Generalized Tangent Vector Fields,**  
International Workshop on Computer Graphics, Shenzhen, China 2/12/2014

**Restoration of Historical Documents,**  
ZURICH.MINDS, Zurich, Switzerland 12/11/2014

**Tangible and Modular Input Device for Character Articulation,**  
Remedy Entertainment, Espoo, Finland 29/10/2014

**Generalized Tangent Vector Fields,**  
Aalto University, Aalto, Finland 28/10/2014

**Fabrication-Aware Geometry Processing,**  
Siggraph Finland Chapter Conference, Helsinki, Finland 27/10/2014

**Generalized Tangent Vector Fields,**  
University College London, London, UK 23/09/2014

**Tangible and Modular Input Device for Character Articulation,**  
Double Negative, London, UK 22/09/2014

**Designing Self-Supporting Masonry Structures,**  
Technical University of Catalonia, Barcelona, Spain 05/03/2014

**Interactive Geometry Processing,**  
TU Delft, Netherlands, 13/02/2014

**Locally Injective Mappings,**  
Geometric and Physical Modeling 2013, Denver, USA, 13/11/2013

**Consistent Volumetric Discretizations Inside Self-Intersecting Surfaces,**  
Geometry Workshop, Strobl, Austria, 31/08/2013

**Global Parametrization, Symmetry and Self-Supporting Surfaces,**  
University of Lugano, Lugano, Switzerland, 19/04/2013

**Fields on Symmetric Surfaces,**  
University of Zurich, Zurich, Switzerland, 20/06/2012

**Fields on Symmetric Surfaces,**  
FU Berlin, Berlin, Germany, 21/06/2012

**Interference-Aware Geometry Modeling,**  
Siggraph Tokyo Seminars, 24/02/2012

**Interactive Geometric Modeling,**  
University of Zurich, 21/11/2011

**Quad Mesh Simplification and Parametrization,**  
University of Cambridge, UK, 30/05/2011

**Advances in Content-Aware Image Retargeting,**  
University of Nottingham, UK, 26/05/2011

**Patchwork Terrains,**  
New York University, NY, USA, 09/11/2010

**Automatic Construction of Quad-Based Subdivision Surfaces,**  
CNR, Pisa, Italy, 22/04/2010

**ART:** **Incidental Space,** La biennale di Venezia, 28/05/2016 - 27/11/2016

<b>PROFESSIONAL ACTIVITIES:</b>	General Chair, <b>Reproducibility Stamp</b> ,	2016,2017,2018
	Paper Chair, <b>Symposium on Geometry Processing</b> ,	2016
	Paper Chair, <b>Shape Modeling International</b> ,	2017
	Paper Chair, <b>SIBGRAPI</b> ,	2017
	Paper Chair, <b>Eurographics</b> ,	2020
	Conference Chair, <b>Tristate Workshop on Imaging and Graphics</b> ,	2016
	Symposium Organizer, <b>World Congress in Computational Mechanics</b> ,	2018
	Associate Editor-in-Chief, <b>The Visual Computer</b> ,	2014,2015,2016,2017,2018
	Associate Editor, <b>ACM Transaction on Graphics</b> ,	2018
	Associate Editor, <b>Computer Aided Geometric Design</b> ,	2016,2017,2018
	Associate Editor, <b>Computers &amp; Graphics</b> ,	2016,2017,2018
	Panel Member, <b>National Science Foundation</b> ,	2017,2018
	Steering Committee Member, <b>Symposium on Geometry Processing</b> ,	2017, 2018
	PC Member, <b>ACM SIGGRAPH</b> ,	2015, 2016
	PC Member, <b>ACM SIGGRAPH Asia</b> ,	2015, 2017, 2018
	PC Member, <b>ACM SIGGRAPH Asia - Courses</b> ,	2016
	PC Member, <b>Eurographics</b> ,	2015, 2016, 2018
	PC Member, <b>Eurographics - SHORT</b> ,	2013,2014
	PC Member, <b>Eurographics - STAR</b> ,	2016
	PC Member, <b>Advances in Architectural Geometry</b> ,	2014,2016,2018
	PC Member, <b>3DIMPVT</b> ,	2012
	PC Member, <b>3DV</b> ,	2013,2014
	PC Member, <b>Symposium on Geometry Processing</b> ,	2013,2014,2015,2017,2018
	PC Member, <b>IEEE EuroVIS - SHORT</b> ,	2013
	PC Member, <b>CGI</b> ,	2013,2014
	PC Member, <b>VMV</b> ,	2013
	PC Member, <b>Pacific Graphics</b> ,	2013,2014,2015,2016,2017
	PC Member, <b>GMP</b> ,	2014, 2015
	PC Member, <b>GRAPP</b> ,	2014
	PC Member, <b>SPM</b> ,	2014,2017,2018
	PC Member, <b>SMI</b> ,	2014,2015,2016
	PC Member, <b>IC on Computer-Aided Design and Computer Graphics</b> ,	2015
	PC Member, <b>Symposium on Indoor Scene Understanding</b> ,	2014
PC Member, <b>International Symposium on Visual Computing</b> ,	2018	
Reviewer, <b>ACM SIGGRAPH</b> ,	2011,2013,2014,2017,2018	
Reviewer, <b>ACM SIGGRAPH Asia</b> ,	2012,2013,2014,2016	
Reviewer, <b>Eurographics</b> ,	2011,2012,2013,2014,2017	
Reviewer, <b>ACM Transaction on Graphics</b> ,	2012,2013,2014,2016,2017,2018	
Reviewer, <b>Computer Graphics Forum</b> ,	2009,2012,2013,2014	
Reviewer, <b>Nokia Educational Material</b> ,	2009,2010,2011	
Reviewer, <b>GraVisMa</b> ,	2010	
Reviewer, <b>The Visual Computer</b> ,	2011	
Reviewer, <b>Grapp</b> ,	2011	

Reviewer, <b>IEEE Transactions on Multimedia,</b>	2011,2012
Reviewer, <b>Graphical Models,</b>	2012
Reviewer, <b>Journal on Computing and Cultural Heritage,</b>	2012
Reviewer, <b>IEEE Transactions on Cybernetics,</b>	2013
Reviewer, <b>Journal of Graphics Tools,</b>	2013
Reviewer, <b>CAGD,</b>	2014
Reviewer, <b>IEEE Transactions on Image Processing,</b>	2015
Reviewer, <b>IEEE Signal Processing Letters,</b>	2015
Reviewer, <b>Computational Geometry: Theory and Applications,</b>	2016
Reviewer, <b>Nature Scientific Reports,</b>	2017
Reviewer, <b>Journal of Computational Design and Engineering,</b>	2017
Reviewer, <b>CAD/Graphics,</b>	2015
Reviewer, <b>STAG,</b>	2018
Reviewer, <b>ISVC,</b>	2018
Reviewer, <b>Springer Optimization and Engineering,</b>	2018

<b>PHD THESIS COMMITTEE MEMBER:</b>	Tobias Lendenmann, ETH Zurich,	2018
	Dingzeyu Li, Columbia University,	2018
	Christian Schuller, ETH Zurich,	2018
	Rene Hiemstra, UT Austin,	2018
	Kui Wu, University of Utah,	2018
	Nico Schertler, TU Dresden,	2018
	Steven Schmidt, BYU,	2017
	Hans-Christian Ebke, RWTH Aachen,	2017
	Julian Panetta, New York University,	2017
	Qingnan Zhou, New York University,	2016
Gabriele Salvati, Sapienza University,	2016	

<b>CURRENT PHD STUDENTS AND POSTDOCS:</b>	Zhongshi Jiang, PhD student	2016 - present
	Yixin Hu, PhD student	2016 - present
	Zachary Ferguson, PhD student	2017 - present
	Francis Williams (co-supervised with Claudio Silva), PhD student	2017 - present
	Hanxiao Shen (co-supervised with Denis Zorin), PhD student	2017 - present
	Jeremie Dumas (co-supervised with Denis Zorin), postdoc	2017 - present
	Teseo Schneider (co-supervised with Denis Zorin), postdoc	2017 - present

<b>PAST PHD STUDENTS AND POSTDOCS:</b>	Xifeng Gao, postdoc. Now faculty at Florida State University.	2016-2018
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