# **Hui Wang**

Visual Computing Center (VCC), King Abdullah University of Science and Technology (KAUST), Jeddah, Saudi Arabia 📞 (+86) 13164547867 | 🖂 hui.wang.1.@kaust.edu.sa / hwangchn@outlook.com | 🏕 https://wwmore.github.io/hwang/

## Research Interest

Mainly lie in architectural geometry, computational geometry, discrete differential geometry, geometry processing, etc.

# **Education** \_

TU Wien Vienna, Austria

Sep. 2017 - Oct. 2019 Joint PhD (supported by CSC) in Institute of Discrete Mathematics and Geometry

Supervisior: Prof. Helmut Pottmann

Dalian University of Technology (DUT) Dalian, China

PhD in School of Mathematical Sciences Sep. 2015 - Mar. 2020

Supervisior: Prof. Chungang Zhu

Dalian University of Technology (DUT) Dalian, China

MS in School of Mathematical Sciences Sep. 2013 - Oct. 2015

Supervisior: Prof. Zhonghua Hou

**Jilin Normal University** Siping, China Sep. 2009 - Oct. 2013

BS in Mathematics and Applied Mathematics

### Publication \_\_\_\_\_

#### Architectural Freeform Surfaces Designed for Cost-effective Paneling Through Mold Re-use

Advances in Architectural Geometry (AAG), 2020. 2020

Davide Pellis, Martin Kilian, Hui Wang, Caigui Jiang, Christian Müller, Helmut Pottmann.

O Principal Symmetric Meshes

ACM Trans. Graphics, SIGGRAPH, 2020. 2020

Davide Pellis\*, Hui Wang\*, Martin Kilian, Florian Rist, Helmut Pottmann, Christian Müller (\*joint first author).

O Discrete Geodesic Parallel Coordinates

ACM Trans. Graphics, SIGGRAPH ASIA, 2019. 2019

Hui Wang, Davide Pellis, Florian Rist, Helmut Pottmann, Christian Müller.

O Design and Construction of Curved Support Structures with Repetitive Parameters

Advances in Architectural Geometry (AAG), 2018. 2018

Eike Schling, Martin Kilian, Hui Wang, Jonas Schikore, and Helmut Pottmann.

O Curved Support Structures and Meshes with Spherical Vertex Stars

ACM Trans. Graphics, SIGGRAPH Poster, 2018. 2018

Martin Kilian, Hui Wang, Eike Schling, Jonas Schikore, and Helmut Pottmann.

O Construction of B-spline surface from Cubic B-spline Asymptotic Quadrilateral

Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME).

Hui Wang, Chungang Zhu, and Caiyun Li.

O The Design of Bézier Surface Through Quintic Bézier Asymptotic Quadrilateral

Journal of Computational Mathematics (JCM). 2017

2017

Hui Wang, Chungang Zhu, and Caiyun Li.

O Construction of Rational Bézier Surface Interpolating Asymptotic Quadrilateral

Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics. 2017

Hui Wang, Chungang Zhu, and Caiyun Li.

O Identification of Planar Sextic Pythagorean-Hodograph Curves Journal of Mathematical Research with Applications. 2016 Hui Wang, Chungang Zhu, and Caiyun Li.  $\circ G^2$  Hermite Interpolation by Pythagorean Hodograph of Degree Six Journal of Graphics. 2016 Hui Wang, Chungang Zhu, and Caiyun Li. Conference and Selected Talks. O SIGGRAPH ASIA 2019 Brisbane, Austrilia Nov.17-20 2019 Discrete Geodesic Parallel Coordinates Presenter O Fifth Symposium on Geometry and Computational Design(GCD) 2018 Vienna, Austria TU Wien Oct.25, 2018 Attendee Advances in Architectural Geometry (AAG) 2018 Gothenburg, Sweden Chalmers University of Technology Sep.22-25, 2018 Attendee O Fourth Symposium on Geometry and Computational Design(GCD) 2017 Vienna, Austria Nov.17, 2017 Attendee O Computer Mathematics (CM) 2016 Shenzhen, China Construction of Bezier Surface by Bezier Asymptotic Quadrilateral Nov.11-13, 2016 Presenter (in Chinese) O Asian Conference on Design and Digital Engineering 2016 Jeju, Korea Construction of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral Oct.25-28, 2016 Presenter O International Conference on Information and Computational Science (ICICS) 2016 Dalian, China Dalian University of Technology Aug.2-6, 2016 Attendee O CSIAM Geometric Design and Computing (GDC) 2016 Hefei, China University of Science and Technology of China July 16-18, 2016 Attendee O CSIAM Geometric Design and Computing (GDC) 2015 Hangzhou, China  $G^2$  Hermite Interpolation by Pythagorean Hodograph of Degree Six Aug.22-24, 2015 Presenter (in Chinese) Skills O Programming: Python, Matlab, Maple O **Software Tools**: Rhinoceros, Blender, GIMP, Meshlab O **Language**: Chinese (native), English, German (beginner) Reference \_ O Prof. Helmut Pottmann: Full Professor, KAUST and TU Wien, Austria. O **Ass.Prof. Christian Müller**: Assistant Professor, TU Wien, Austria. O Dr. Martin Kilian: Assistant, TU Wien, Austria.

O Prof. Chungang Zhu, Prof. Zhonghua Hou: Full Professor, DUT, China.