



PhD Program between the Freie Universität Berlin (FUB) and the China Scholarship Council (CSC)

Open PhD position at FUB for CSC scholarship candidates 2018

Please note: the PhD position is only offered to Chinese PhD candidates for application in the framework of the FUB-CSC PhD Program.

<u>Department/Institute:</u>	Department of Mathematics and Computer Science
<u>Subject area:</u>	Geometry Processing
<u>Name of Supervisor:</u>	Prof. Konrad Polthier
<u>Number of open PhD positions:</u>	1
<u>Type of the PhD Study:</u>	Full-time or Sandwich-Model
<u>Project title:</u>	New algorithms for geometry processing

PhD Project description:

Development of new algorithms for geometry processing such as 3D scanning, filtering, shape analysis, parametrization, physical simulation, 3d printing, fabrication. Mathematical concepts for geometry processing including data structures, discrete differential operators and reproducibility of algorithms. Specific PhD topic will be selected together with student candidate.

Language requirements:

German: TestDaf: 16 or DSH 2 **OR** English: IELTS: 6.5 or TOEFL: 95 ibt.

Academic requirements:

PhD candidates should have a Master degree in mathematics or computer science and a proven expertise in geometry processing and applied geometry.

Information of the professor or research group leader:

Konrad Polthier is full professor of mathematics at Freie Universität Berlin. His research focuses on discrete differential geometry, applied geometry, geometry processing and mathematical visualization. Results from him have been applied in industry such as computer graphics, computer aided design and architecture. Dr. Polthier has written and co-edited books on mathematical visualization and produced mathematical video films. His video MESH – A Journey through Discrete Geometry (www.mesh-film.de, joint with Beau Janzen, Los Angeles) has received international awards including "Best Animation" at the New York International Independent Film Festival. Polthier served as conference chair on international conferences including ACM/Eurographics Symposium on Geometry Processing and SIAM Geometric Design. In 2016 he co-organized the International Geometry Summit in Berlin. Since May 2014 he serves as co-editor in chief of Computer Aided Geometric Design. For more details about his activities and research group see: <http://www.polthier.info>

Please note: In a first step, the complete application must be submitted to the Beijing Office for evaluation by January 4th, 2018. Please do not contact the professor before. He/She will get in contact with you after having received the complete application via the Beijing Office in January.