

## Yujian Zheng (郑玉健)

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Home page: <https://paulyzheng.github.io>



### EDUCATION

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**Bachelor, Software Engineering**

**GPA:3.3/4.0**

**2014.9-present**

School of Computer Science and Technology, Harbin Institute of Technology, Weihai

### RESEARCH INTEREST

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My research focuses on geometric modeling and computer aided design. Specifically, I am interested in developable surface construction. And I am also keen on 3D reconstruction and printing.

### PUBLICATIONS

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**Zheng Y J**, Bo P B. Quasi-developable Surface Construction Based on Boundary Curve and its application in Ship Hull Design (in Chinese). J Comput-Aid Desig Comput Graph (Accepted)

Lin D S, **Zheng Y J**, Bo P B. Volume Rendering with Adaptive Local Feature Enhancement (in Chinese). CSIAM Geometric Design and Computing of China, Yantai, 2017

Bo P B, Wang Z, Zhang C M, **Zheng Y J**. Developable Surface Reconstruction from Noisy Data with L0-norm Minimization (in Chinese). Sci Sin Inform, 2017, 47(4): 401-415

### RESEARCH EXPERIENCE

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**Developable Surface Construction between Two Boundaries**

**2016.12-present**

The subject is aimed to find a robust method which can construct a quasi-developable surface between two boundaries using several specific numerical optimization techniques. The phased results have hitherto been applied in ship hull design, which have been accepted by J Comput-Aid Desig Comput Graph.

**Volume Rendering**

**2016.11-2017.5**

*GDC 2017*

Our work is an optimization of Volume Illustration which is a well-known method in volume rendering based on non-photorealistic rendering.

**Developable Surface Reconstruction from Noisy Data**

**2016.5-2016.11**

*China CAD&CG 2016*

We present an innovative method for Developable Surface Reconstruction from Noisy Data. In this work, I implement an optimization approach to smooth normal vector field of given model via L0-norm minimization.

### PROFESSIONAL SKILLS

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**Programming Languages:** C, C++, Java

**Libraries and Tools:** HLBFGS, OpenGL, OpenMesh, GeometricTools(Curve and Surface)

### AWARDS

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**National Inspirational Scholarship, Ministry of Education, P.R.China**

**2016**