

# Man-Kwun Chiu

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National Institute of Informatics  
JST, ERATO, Kawarabayashi Large Graph Project  
📄 <https://chiumk.github.io/>

## Education

- 2008–2014 **Doctor of Philosophy in Computer Science and Engineering**, *The Hong Kong University of Science and Technology*, Hong Kong.  
Thesis title: Manifold Reconstruction from Discrete Point Sets  
Supervisor : Dr. Siu-Wing Cheng
- 2006–2008 **Master of Philosophy in Computer Science and Engineering**, *The Hong Kong University of Science and Technology*, Hong Kong.  
Thesis title : Dimension Detection via Slivers  
Supervisor : Dr. Siu-Wing Cheng
- 2002–2006 **Bachelor of Engineering in Computer Science with minor in Mathematics**, *The Hong Kong University of Science and Technology*, CGA : 11.39 (12 pt scale).  
First Class Honors

## Work Experience

- 2015–Present **Researcher**, *JST ERATO Kawarabayashi Large Graph Project*, National Institute of Informatics, Japan.
- 2014–2015 **Post-doctoral Fellow**, *HKUST*, Hong Kong.
- 2006–2014 **Teaching/Research Assistant**, *HKUST*, Hong Kong.
- 2004–2005 **Internship**, *HSBC IT department*, Hong Kong.

## Awards

- 2006 HKUST Academic Achievement Medal
- 2002–2006 Dean's List: six semesters
- 2006 Hong Kong Telecom Institute of Information Technology Scholarship
- 2006 Wu Ti Hsien Science & Education Foundation Fund Scholarship
- 2005 The Hong Kong Jockey Club Mini Game Design Award
- 2004 Wu Ti Hsien Science & Education Foundation Fund Scholarship
- 2004 The Chinese General Chamber of Commerce Scholarship

## Reviews

I have reviewed papers for the following journals and conferences.

### Journals

Algorithmica

Journal of Computational Geometry (JoCG)  
Journal of Information Processing (JIP)  
Journal of Information Science and Engineering (JISE)

#### Conferences

Algorithms and Data Structures Symposium (WADS)  
International Computing and Combinatorics Conference (COCOON)  
International Conference and Workshops on Algorithms and Computation (WALCOM)  
International Symposium on Algorithms and Computation (ISAAC)  
Japan Conference on Discrete and Computational Geometry and Graphs (JCDCG<sup>2</sup>)  
Scandinavian Symposium and Workshops on Algorithm Theory (SWAT)  
Symposium on Computational Geometry (SoCG)

### Programming Languages

MATLAB, L<sup>A</sup>T<sub>E</sub>X, C++, Java, COBOL, ASP.NET

### Languages

Cantonese **Mothertongue**

English, Putonghua **Intermediate**

*Con conversationally fluent*

Japanese **Basic**

*Basic words and phrases only*

### Publications

#### Publications in international journals

- 2017 Jean-François Baffier, Man-Kwun Chiu, Yago Diez, Matias Korman, Valia Mitsou, André van Renssen, Marcel Roeloffzen, and Yushi Uno. “Hanabi is NP-hard, Even for Cheaters who Look at Their Cards”. In: *Theoretical Computer Science*.
- 2016 Siu-Wing Cheng and Man-Kwun Chiu. “Tangent Estimation from Point Samples”. In: *Discrete & Computational Geometry* 56.3, pp. 505–557.
- 2015 Siu-Wing Cheng, Man-Kwun Chiu, Jiongxin Jin, and Antoine Vigneron. “Navigating Weighted Regions with Scattered Skinny Tetrahedra”. In: *International Journal of Computational Geometry and Applications*.

#### Publications in refereed conferences

- 2017 Man-Kwun Chiu and Matias Korman. “High Dimensional Consistent Digital Segments”. In: *Proceedings of the ACM Symposium on Computational Geometry*.
- 2016 Jean-François Baffier, Man-Kwun Chiu, Yago Diez, Matias Korman, Valia Mitsou, André van Renssen, Marcel Roeloffzen, and Yushi Uno. “Hanabi is NP-complete, Even for Cheaters who Look at Their Cards”. In: *8th International Conference on Fun with Algorithms, FUN 2016, June 8-10, 2016, La Maddalena, Italy*, 4:1–4:17.

- 2015 Siu-Wing Cheng, Man-Kwun Chiu, Jiongxin Jin, and Antoine Vigneron. "Navigating Weighted Regions with Scattered Skinny Tetrahedra". In: *Algorithms and Computation - 26th International Symposium, ISAAC 2015, Nagoya, Japan, December 9-11, 2015, Proceedings*, pp. 35–45.
- 2014 Siu-Wing Cheng and Man-Kwun Chiu. "Implicit Manifold Reconstruction". In: *Proceedings of the Twenty-Fifth Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2014, Portland, Oregon, USA, January 5-7, 2014*, pp. 161–173.
- 2009 Siu-Wing Cheng and Man-Kwun Chiu. "Dimension detection via slivers". In: *Proceedings of the Twentieth Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2009, New York, NY, USA, January 4-6, 2009*, pp. 1001–1010.