

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.

Scholarships and awards

- 2006 HKUST Academic Achievement Medal
Awarded annually to the top 1% HKUST graduates with outstanding academic performance
- 2002–2006 Dean's List: six semesters
Obtained a term grade average of at least 10pt(A-) (12 pt scale)
- 2006 Hong Kong Telecom Institute of Information Technology Scholarship (\approx US\$4000)
- 2006 Wu Ti Hsien Science & Education Foundation Fund Scholarship (\approx US\$1200)
- 2004 Wu Ti Hsien Science & Education Foundation Fund Scholarship (\approx US\$1200)
- 2004 The Chinese General Chamber of Commerce Scholarship (\approx US\$4000)

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* 675, pp. 43–55.
- 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 Paz Carmi, Man Kwun Chiu, Matya Katz, Matias Korman, Yoshio Okamoto, André van Renssen, Marcel Roeloffzen, Taichi Shiitada, and Shakhar Smorodinsky. “Balanced Line Separators of Unit Disk Graphs”. In: *Proceedings of the 15th Algorithms and Data Structures Symposium (WADS 2017)*.
- 2017 Man-Kwun Chiu and Matias Korman. “High Dimensional Consistent Digital Segments”. In: *Proceedings of the 33rd Annual Symposium on Computational Geometry (SoCG 2017)*.
- 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: *Proceedings of the 8th International Conference on Fun with Algorithms (FUN 2016)*, 4:1–4:17.
- 2015 Siu-Wing Cheng, Man-Kwun Chiu, Jiongxin Jin, and Antoine Vigneron. “Navigating Weighted Regions with Scattered Skinny Tetrahedra”. In: *Proceedings of the 26th International Symposium on Algorithms and Computation (ISAAC 2015)*, pp. 35–45.
- 2014 Siu-Wing Cheng and Man-Kwun Chiu. “Implicit Manifold Reconstruction”. In: *Proceedings of the 25th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2014)*, pp. 161–173.
- 2009 Siu-Wing Cheng and Man-Kwun Chiu. “Dimension detection via slivers”. In: *Proceedings of the 20th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2009)*, pp. 1001–1010.

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)
International Symposium on Computational Geometry (SoCG)
Japan Conference on Discrete and Computational Geometry and Graphs (JCDCG²)
Scandinavian Symposium and Workshops on Algorithm Theory (SWAT)

Programming Languages

MATLAB, \LaTeX , C++, Java, COBOL, ASP.NET

Languages

Cantonese **Mothertongue**

English, **Intermediate**
Putonghua

Japanese **Basic**

Conversationally fluent

Basic words and phrases only