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Education

Ph.D. in Mathematics | 2018 | The Chinese University of Hong Kong

· Advisor: Prof. Luen-Fai TAM

M.Phil. in Mathematics | 2015 | The Chinese University of Hong Kong

B.Sc. in Mathematics | 2013 | The Chinese University of Hong Kong

Research Interest

Riemannian Geometry, Analysis of PDEs, Geometric flow

Honors, Grants and Awards

1. **Reaching Out Award**, HKSAR Government Scholarship Fund, 2015-2016
2. **Professor Hing Sun Luk Scholarship for Mathematics**, The Chinese University of Hong Kong, 2012-2013
3. **Dr. Chao Yong Chi-Hsing Mathematics Scholarship**, The Chinese University of Hong Kong, 2011-2012
4. **Entrance scholarship**, The Chinese University of Hong Kong, 2010-2011

Publications and Preprints

1. (With S. Huang, L-F. Tam, F. Tong) Longtime existence of Kaehler Ricci flow and holomorphic sectional curvature. arXiv:1805.12328.
2. (With John. Ma) Uniqueness theorems for non-compact mean curvature flow with possibly unbounded curvatures. arXiv:1709.00253, submitted.
3. (With L-F. Tam) Chern-Ricci flows on noncompact manifolds. arXiv:1708.00141, accepted by JDG.
4. On the uniqueness of Ricci flow. arXiv:1706.06848, submitted.
5. (With L-F. Tam) On existence and curvature estimates of Ricci flow. arXiv:1702.02667, submitted.

Presentations

1. “Chern Ricci flow on noncompact manifolds with applications”, The Geometric Analysis Seminar at School of Mathematical Sciences, Xiamen University, June 2018.
2. “Chern Ricci flow on noncompact manifolds with applications”, Seminar on pure mathematics, The Hong Kong University of Science and Technology, Dec 2017.
3. “Chern Ricci flow on noncompact manifolds with applications”, Seminar of Geometry and its relatives, Yau Mathematical Sciences Center Tsinghua University, Dec 2017.
4. “Chern Ricci flow on noncompact manifolds with applications”, Joint Geometric Analysis Seminar, CUHK & IMS, Sep 2017
5. “A note on existence of Ricci flow”, Geometric Analysis Working Seminar, CUHK, Mar 2017.
6. “Ricci flow on asymptotically flat manifolds”, Geometric Analysis Working Seminar, CUHK, Sep 2016.
7. “Function Theory on Complete Kaehler manifolds”, Geometric Analysis Working Seminar, CUHK, Mar 2016.

Selected Workshops and Conferences Attended

1. 2018 International Conference on Geometric Analysis at Tsinghua University, Yau Mathematical Sciences Center, Tsinghua University, May 2018
2. Young Geometric Analysts’ Forum 2018, Tsinghua University, Jan 2018.
3. 2018 Taipei Conference on Geometric Invariance and Partial Differential Equations, National Taiwan University, Jan 2018.
4. Seminar of Geometry and its relatives, Yau Mathematical Sciences Center, Tsinghua University, Dec 2017.
5. The 7th International Congress of Chinese Mathematicians, Tsinghua University, Aug 2016.
6. The Third Taiwan international Conference on Differential Geometry, National Taiwan University, Jan, 2016.
7. Workshop on Probability and PDEs, CUHK, Apr 2015.
8. The Fourth Joint China-Australia Conference on Nonlinear Partial Differential Equations and Related Topics, CUHK, Nov 2014.
9. Mini-workshop on Differential Geometry, CUHK, Dec 2014.

Teaching Experience

The Chinese University of Hong Kong

- Summer Term 2012 -Number Theory and Cryptography
- Summer Term 2013 -Geometric Perspectives of Complex Numbers
- Fall Term 2013 -Elementary Mathematical Analysis I, Calculus for Engineering
- Spring Term 2014 -Elementary Mathematical Analysis II
- Fall Term 2014 -Elementary Mathematical Analysis I
- Spring Term 2015 -Elementary Mathematical Analysis II
- Fall Term 2015 -Complex Analysis
- Spring Term 2016 -Elementary Mathematical Analysis II
- Fall Term 2016 -Complex Analysis
- Spring Term 2017 -Real Analysis
- Fall Term 2017 -Elementary Mathematical Analysis I
- Spring Term 2018 -Real Analysis

Skills

1. Knowledge in programming language: C, C++, Matlab.
2. Proficiency in MS Word, Excel, PowerPoint, Latex.
3. Native Cantonese, fluent English and Mandarin.

References

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Professor Martin Man-Chun Li
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Professor Po-Lam Yung (teaching)
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