

THOTSAPHON THONGJUNTHUG

Date of Birth: 2 April 1984
Country of Citizenship: Thailand

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Departmental Address:

Mathematics Institute
University of Warwick
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Education:

- 2007 – Present Ph.D. student in Mathematics,
University of Warwick, United Kingdom
- Supervisors: Professor John E. Cremona and Professor Samir Siksek
 - Current research including:
 - Computing a lower bound for the canonical height on elliptic curves over number fields
 - Integral points on elliptic curves over number fields
 - Period lattices and complex elliptic logarithms
 - Developing programs in Magma for relevant computation
- 2007 B.Sc. (Honours Class 1) in Pure Mathematics,
University of New South Wales, Australia
- With a minor in Computing
 - Final mark: 91/100
 - Thesis title: *Elliptic curves over $\mathbf{Q}(i)$* , supervised by Peter G. Brown
- 2003 Foundation Year Certificate,
University of New South Wales, Australia
- Stream: Physical Science
 - GPA: 9.3/10

Scholarship:

2002 – Present Royal Thai Government Scholarship, awarded by the Development and Promotion of Science and Technology Talents Project (DPST)

Prize:

2004 The Faculty of Science Prize for Outstanding Performance in Year 2 of the Science Program, University of New South Wales

Publications:

1. J. E. Cremona and **T. Thongjunthug**, *The complex AGM, periods of elliptic curves over \mathbf{C} and complex elliptic logarithms*, submitted.
2. **T. Thongjunthug**, *Computing a lower bound for the canonical height on elliptic curves over number fields*, *Mathematics of Computation* **79** (2010), 2431 – 2449.

3. P. G. Brown and **T. Thongjunthug**, *Elliptic curves over $\mathbf{Q}(i)$* , The Australian Mathematical Society Gazette **35** (2008), 264 – 270.
4. **T. Thongjunthug**, *Computing a lower bound for the canonical height on elliptic curves over totally real number fields*, Algorithmic Number Theory, 8th International Symposium, ANTS-VIII, Banff, Canada, May 17 – 22, 2008, Proceedings (A. J. van der Poorten and A. Stein, eds.), Lecture Notes in Computer Science, vol. 5011, Springer, 2008, pp. 139 – 152.
5. **T. Thongjunthug**, *Elliptic curves over $\mathbf{Q}(i)$* , Honours thesis, University of New South Wales, 2006.

Research Interest:

Computational and algorithmic aspects of number theory, elliptic curves, Diophantine equations, and their applications

Programming Skills:

- Good skills in object-oriented languages, e.g. C++ and Java
- Competent in mathematics packages Maple and Matlab
- Competent in Magma, a specialised mathematics package for algebraic computation
- Competent in LaTeX typesetting

Languages:

- A native Thai speaker
- Proficient in English
- Basic reading and writing skills in French and German

Conference and Workshop Participation:

1. *Sage Days 23: Number Theory and Computer Algebra*, Leiden University, The Netherlands, 5 – 9 July 2010.
2. *3rd Annual Meeting of the Research and Training Network GTEM (Galois Theory and Explicit Methods)*, Mathematics Institute, University of Warwick, 7 – 11 September 2009.
3. *Rational Points on Curves and Higher Dimensional Varieties*, Mathematics Institute, University of Warwick, 16 – 20 June 2008.
4. *Surfaces: Geometry and Arithmetic*, Mathematics Institute, University of Warwick, 14 – 18 April 2008.
5. *Galois Theory and Explicit Methods*, Leiden University, The Netherlands, 17 – 21 September 2007.
6. *Rational Points on Curves and Higher Dimensional Varieties: Theory and Explicit Methods*, Jacobs University Bremen, Germany, 21 – 28 July 2007.
7. *25th Journées Arithmétiques*, University of Edinburgh, 2 – 6 July 2007.
8. *Solvability of Diophantine Equations*, Leiden University, The Netherlands, 7 – 16 May 2007.

Short Course Attendance:

1. *Modular Forms*, by Taught Course Centre (TCC), January 2009 – March 2009.
2. *L-functions*, by TCC, October 2008 – December 2008.
3. *Arithmetic of Curves of Higher Genus*, by TCC, March 2008 – May 2008.

Presentations Given:

1. (with John E. Cremona). *The complex AGM and periods of elliptic curves over \mathbf{C}* , Number Theory Seminar, Mathematics Institute, University of Warwick, 8 March 2010.
2. *Computing a lower bound for the canonical height on elliptic curves over number fields*, in 2nd TCC Number Theory Event, Mathematical Institute, University of Oxford, 8 December 2008.
3. *Computing a lower bound for the canonical height on elliptic curves over totally real number fields*, in 8th Algorithmic Number Theory Symposium (ANTS-VIII), Banff, Canada, 19 May 2008.
4. *Computing a lower bound for the canonical height on elliptic curves over number fields*, as part of the workshop *Active Period in Arithmetic Geometry*, Mathematics Institute, University of Warwick, 15 May 2008.
5. *Hecke operators for congruence subgroups of higher level*, Graduate Seminar in Modular Forms, Mathematics Institute, University of Warwick, 3 March 2008.
6. *Computing a lower bound for the canonical height on elliptic curves over totally real number fields*, in 1st TCC Number Theory Event, Department of Mathematics, University of Bristol, 21 January 2008.
7. *Congruence subgroups of higher level*, Graduate Seminar in Modular Forms, Mathematics Institute, University of Warwick, 26 November 2007.

Teaching Assistance and Training:

2009-2010	MA124 Mathematics by Computer Mathematics Institute, University of Warwick
2008	Postgraduate Award (Part 1) in Introduction to Academic and Professional Practice, University of Warwick
2006	Maple programming consultant for first year mathematics, School of Mathematics and Statistics, University of New South Wales

Selected Skill Development:

January 2009	Writing for Publication
January 2009	How to Write Literature Review – Science and Medicine
December 2008	Consultancy Skills for Academia
December 2008	MBTI Personality Testing

References:

Available on request

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