

Ji Li

Curriculum Vitae

EDUCATION

- MAY 2012 Ph.D. in MATHEMATICS
University of Connecticut, Storrs
Advisor: Thomas J. Peters
Dissertation:
Isotopic Equivalence with -
Applications to Simulations
- JUNE 2008 M.S. in MATHEMATICS
Ohio University, Athens
- JUNE 2006 B.E. in SOFTWARE ENGINEERING
Xiamen University, China

RESEARCH INTERESTS

Topology and Computational Topology: My thesis research has focused on topological characteristics during curve approximation for scientific visualization. My main results are novel integrations of knot theory, low-dimensional topology and general topology with applications to computer science.

ARTICLES

Journal articles:

- Computational Topology Counterexamples with 3D Visualization of Bézier Curves (Submitted).
- Ambient Isotopy under Subdivision. (To be submitted recently).

Conference proceeding:

- J.Li, T.J.Peters and J.A.Roulier. Angular Convergence during Bézier Curve Approximation. *Proceedings of The 27th European Workshop on Computational Geometry*, pages 175-178, 2011.

Preprints:

- Isotopy Convergence Theorem.
- Tubular Surfaces with Varying Radii.

AWARDS AND HONORS

- Doctoral Dissertation Fellowship 2012
University of Connecticut
- Academic year Pre-doctoral Fellowship 2012
University of Connecticut
- Summer Pre-doctoral Fellowship 2010
University of Connecticut
- Software Engineering Scholarship 2002-2004
Xiamen University

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TEACHING EXPERIENCE

FALL 2008 – PRESENT

University of Connecticut, Storrs, CT

- Applied Linear Algebra
 - Calculus I
 - Calculus II
 - Problem Solving
 - Mathematics for Business and Economics
- Selected syllabi are available at my website.*

SUMMER 2009

Center for Academic Programs, Storrs, CT

- Pre-Calculus: tutored students who come from underrepresented ethnic or economic backgrounds.

FALL 2006-JUNE 2008

Ohio University, Athens, OH

- Algebra
- Calculus, Pre-Calculus: tutored and graded.

TALKS

- 21st Fall Workshop on Computational Geometry 2011, New York, U.S., November 2011: “Ambient Isotopic Approximation of Bézier Curves.”
- 27th European Workshop on Computational Geometry, Switzerland, March 2011: “Angular Convergence during Bézier Curve Approximation.”
- International Research Training Group of the University of Kaiserslautern, Germany, April 2011: “Isotopic Equivalence.”

INTERESTS AND ACTIVITIES

Philosophy, Piano, Basketball

COMPUTER SKILLS

MatLab, Mathematica, L^AT_EX, C, Java, HTML

PROFESSIONAL MEMBERSHIP

American Mathematical Society 2006-present