

Phong Q. Chau

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EDUCATION

Ph.d, Mathematics Arizona State University Cumulative GPA 3.93 Advisors: Hal Kierstead and Andrej Czygrinow Dissertation Title: <i>On Hamiltonian Square Cycles in Ore-type Graphs</i>	August 2009 Tempe, AZ
M.A, Mathematics Arizona State University Cumulative GPA 3.90	May 2004 Tempe, AZ
B.A, Mathematics Arizona State University Cumulative GPA 3.87	May 2004 Tempe, AZ

RESEARCH

Research interests

- Extremal graph theory
- Hamiltonian problems and graph packings.

Publications

- *Posa's Conjecture for graphs of order at least 8 billions*, submitted.
- *Hamiltonian square cycles in Ore-type graphs*, submitted.
- *An Ore-type analogue of Posa's Conjecture*, submitted.

Presentations/Conferences

- Worked with Dr. Kierstead at ASU to referee a 94-page paper to be published in a professional mathematics journal, spring 2010.
 - Invited talk, "Hamiltonian Square Cycles in Ore-type Graphs" at the AMS – MAA Joint Mathematics Meetings in San Francisco, Jan 13 - 16, 2010.
 - IPAM (Institute for Pure and Applied Mathematics) workshop on Topics in Graphs and Hypergraph on November 2 – 5, 2009.
 - MAA Southwest Sectional Meeting, Tempe, AZ, April 8-9, 2008.
 - Invited talk, "On the square of a hamiltonian cycle" ASU Graduate Student Seminar, Tempe, AZ, March 17, 2008.
 - National Joint AMS/MAA Mathematics Meeting, San Diego, CA, January 6-9, 2008.
 - MAA Southwest Sectional Meeting, Tucson, AZ, April 7-8, 2006.
 - National Joint AMS/MAA Mathematics Meeting, Phoenix, AZ, January 7-10, 2004.
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TEACHING

Residential Faculty

Glendale Community College

2007 – current

Glendale, AZ

- Teach a full range of mathematics courses ranging from arithmetic through calculus
- Implement technology in classroom and teach classes with traditional and hybrid structures.
- Member of math faculty search committee and textbook selection committee
- Participation in student recruitment for Student Mathematics League Competition and held several practice sessions to prepare students for the competition.

Professor of Mathematics

Arizona Western College

2005 – 2007

Yuma, AZ

- Teach a full range of mathematics courses ranging from arithmetic through calculus and differential equations.
- Experience in using Blackboard, MyMathLab, iLrn, Webwork, and Educo Learning System
- Develop new online courses: Brief Calculus and College Mathematics
- Participate in curriculum development, textbook selection and Math Program Review.
- Implement technology in classroom. Lesson notes in PowerPoint are used in some classes.
- Serve as Math and Science Division website editor.
- Identify student-learning outcomes; develop processes and tools for assessment; and incorporate results in order to modify instruction and materials in general education, degree program, course cluster, and/or certificate program.

Adjunct Faculty

Glendale Community College

2004 – 2005

Glendale, AZ

- Teach college mathematics classes
- Prepare all lectures, exams, quizzes and homework assignments
- Work with other teachers to develop effective teaching strategies.

Graduate Teaching Associate

Arizona State University

2002 – 2005

Tempe, AZ

- Teach college mathematics classes (traditional and web-assisted course structures)
- Prepare all lectures, exams, homework assignments, and maintain regular office hours.
- Work as a tutor for all undergraduate math classes in tutoring center 3 hours a week.

Math Tutor (Head Tutor)

Math Science Honor Program at ASU

Summer 2002, 2003, 2005, 2006

Tempe, AZ

- Tutor Algebra through Calculus II and supervise all math tutors.
 - Observe lectures, take notes and compare these notes with the methods in the book, then discuss with other tutors so that every tutor is using the same method.
 - Prepare and set up assignments or possible individual sessions.
 - Maintain an appropriate classroom atmosphere during tutoring sessions.
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HONORS/AWARDS

- ASU Summer Research Award, 05/2007 - 08/2007
- Nominated for Charles Wexler Teaching Award, 2003 and 2004
- First Place Winner in Arizona of AMATYC National Student Mathematics League Competition 1999-2000
- The National Dean's List 1998-1999 and 1999-2000.

COMMITTEE WORK

- Moderator for AMATYC National Students Mathematics Competition at GCC, 2007–2011
- College Algebra/ PreCalculus Course Assessment College Committee, 2007–2011.
- Technology (hybrid/online) Committee, 2009-2011
- Dual Enrollment Committee, 2009 – 2010.
- Textbook Selection Committees (Arithmetic through calculus courses)
- Hiring Committees for several math positions and Dean of Instruction position.
- Math program review committee, Spring 2007.
- Honors Committee, Spring 2007.
- Committee member of AWC accreditation through NCA self-study, 2006 – 2007

ADDITIONAL PROFESSIONAL ACTIVITIES

- Experience in using Blackboard, MyMathLab, iLrn, ThompsonNow, Webwork, Educosoft, Eduspace, and Plato.
- Revised syllabi/outlines for several courses, fall 2006.
- Developed Maple Lab component to second semester calculus course, spring 2006.
- Developed two new web-based courses: Brief Calculus and College Mathematics.
- Writing a lab manual for calculus courses for local use, fall 2006.
- Maintained math and science division websites, 2006-2007.
- Serve as a back up to division chair for book ordering information during summer, 2006.
- Have attended ArizMATYC and ATF Conference, 2005 and 2008.
- Served as an AP Calculus Reader in Kansas City, June 2008 and 2010.
- Spring 2008 Regional Math Conference “Achieving Student Success in the College Mathematics Classroom” in Carefree, AZ on Feb 22, 2008. I
- International Conference on Technology in Collegiate Mathematics in New Orleans on March 12 - 15, 2009
- 2010 Teaching and Learning with Technology conference at MCCCD on May 18, 2010

PROFESSIONAL MEMBERSHIPS

- Mathematical Association of America
 - American Mathematical Society
 - Arizona Mathematics Association of Two Year Colleges
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