

CARLOS CHIQUETE

CONTACT INFORMATION

Program in Applied Mathematics
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RESEARCH INTERESTS

Fluid mechanics, and partial differential equations.

EDUCATION

University of Arizona, Tucson, Arizona USA

Graduate Student, Applied Mathematics, August, 2005 (expected graduation date: May, 2010)

- Advisor: Anatoli Tumin

University of Arizona, Tucson, Arizona USA

B.S., Mathematics, May, 2005

B.S., Physics, May, 2005

HONORS AND AWARDS

Department of Mathematics: NSF VIGRE Travel Grant, 2007

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American Physical Society Division of Fluid Dynamics: Travel Subsidy Grant, 2006

University of Arizona: Magna Cum Laude, 2005

Phi Beta Kappa Honor Society, 2005

ACADEMIC AND RESEARCH EXPERIENCE

University of Arizona, Tucson, Arizona USA

Research Assistant, Graduate Student

August, 2005 - present

Includes current research in fluid mechanics as well as graduate coursework.

NSF VIGRE Undergraduate Research Assistantship

January, 2005 - May, 2005

Undergraduate research in mathematical optics

- Research Topic: "Phase Reconstruction of Optical Image Data".
- Advisor: Robert Indik

Mathematical and Theoretical Biology Institute, Los Alamos, New Mexico USA

Student Researcher

June, 2005 - August, 2005

Research into flu spread in interconnected network of nodes representing the borough of Manhattan.

- Research Topic: "Disease Spread as a Function of Socioeconomic Status in Manhattan".
- Advisor: Carlos Castillo-Chavez and Christopher Kribs-Zaleta

WORK EXPERIENCE

University of Arizona, NSF-Arizona Mass Spectrometry Laboratory, Tucson, Arizona USA

Student Worker

May, 2004 - May, 2005

Carried out tasks to prepare samples for Carbon-14 analysis as well as office duties.

- LEADERSHIP** *SIAM student chapter vice-president* **August 2007 - present**
 Vice-president of the student chapter of the Society of Industrial and Applied Mathematics (SIAM) at the University of Arizona.
- OUTREACH ACTIVITY** *MARC Mathematics Tutor* **August 2007 - present**
 Tutor undergraduates in calculus and pre-calculus in the Minority Access to Research Careers (MARC) center in the University of Arizona.
- Mathematics and Physics Tutor* **October, 2005 - May 2007**
 Tutored undergraduate students at the Chicano-Hispanic Student Affairs center in the University of Arizona.
- PUBLICATIONS** Chiquete, C., and A. Tumin. 2007. Receptivity of a Supersonic Inviscid Flow to Periodic-in-time Perturbations Emanating from a Wall. *37th American Institute of Aeronautics and Astronautics Fluid Dynamics Annual Meeting*, Miami, Florida, June, 2007. Paper AIAA-2007-3982.
- Chiquete, C., J. Blackwood, R. Latterman, and S.A. Small. 2005. Disease Spread as a Function of Socioeconomic Status in Manhattan, MTBI 2005 Technical Report :1-28.
- CONFERENCE PRESENTATIONS** Chiquete, C., and A. Tumin. 2007. Receptivity of a Supersonic Inviscid Flow to Periodic-in-time Perturbations Emanating from a Wall. *37th American Institute of Aeronautics and Astronautics Fluid Dynamics Annual Meeting*, Miami, Florida, June, 2007.
- Chiquete, C., and A. Tumin. 2006. Receptivity of a Supersonic Inviscid Flow to Periodic-in-time Perturbations Emanating from a Wall. *American Physical Society Division of Fluid Dynamics 59th Annual Meeting*, Tampa, Florida, November, 2006.
- Chiquete, C., and A. Tumin. 2006. Receptivity of a Supersonic Inviscid Flow to Periodic-in-Time Perturbations Emanating from a Wall - A Study Case. *44th American Institute of Aeronautics and Astronautics Aerospace Sciences Meeting and Exhibit*, Reno, Nevada, January, 2006.
- Chiquete, C., 2005. Undergraduate Poster Session : Disease Spread as a Function of Socioeconomic Status in Manhattan. *Society for Advancement of Chicanos and Native Americans in Science Conference*, Denver, Colorado, October, 2005.
- Chiquete, C., J. Blackwood, R. Latterman, and S.A. Small. 2005. Disease Spread as a Function of Socioeconomic Status in Manhattan. *Mathematical Association of America MathFest*, Albuquerque, New Mexico, August, 2005.
- COMPUTER SKILLS** • Languages: Matlab, Fortran, C++, C, Pascal.
 • Applications: L^AT_EX, Mathematica, Maple, Scientific Workplace, and common Windows database, spreadsheet, and presentation software.
 • Operating Systems: Unix/Linux, Windows.