

Shawn Marie Amorde, PhD

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EDUCATION

University of Texas at Austin

PhD in Organic Chemistry

Advisor: Stephen F. Martin

Thesis: "Part A: A Cascade approach toward indolizidine and quinolizidine alkaloids; highlighted by the total synthesis of (\pm)-epilupinine, (\pm)-tashiromine, and (-)-epimyrtine. Part B: Progress toward the total synthesis of (\pm)-Meloscine."

GPA: 4.0/4.0

Austin, TX
May 2006

Rensselaer Polytechnic Institute

Master's Candidate in Organic Chemistry

Advisor: Arthur G. Schultz (*deceased Jan. 2000*)

Troy, NY
Sept. 1998 – June 2000

- Completed the course work, proficiency exams, and cumulative exams necessary for candidacy in organic chemistry

Hamline University

B.A. in Biology with a Chemistry minor

St. Paul, MN
May 1994

- Dean's List several semesters
- Worked 30+ hours a week to finance education and living expenses

HONORS

- Esther Caleson Memorial Scholarship for Math and Science (Hamline Univ.)
- Synlett Star Award for Young Synthetic Chemists (Univ. of Texas)
- Clay B. Frederick Rohm and Haas Professional Development Award (Univ. of Texas)

GRADUATE COURSEWORK

Advanced Organic Synthesis
Advanced Inorganic Chemistry
Chemistry Teaching Seminar
Advanced Organic Chemistry

Physical Organic Chemistry
Asymmetric Organic Synthesis
Molecular Spectroscopy
Enzyme Kinetics

RESEARCH EXPERIENCE

Graduate Research
Advisor: Prof. Stephen F. Martin

University of Texas
June 2000 - present

- Synthesis and experimentation of *N*-alkylimines as a cascade approach toward indolizidine and quinolizidine alkaloids; highlighted by the total synthesis of (\pm)-epilupinine, (\pm)-tashiromine, and (-)-epimyrtiline.

Graduate Research
Advisor: Prof. Arthur G. Schultz

Rensselaer Polytechnic Institute
Sept. 1998 - May 2000

- Progress toward the synthesis of the natural product (-) rosemarinicine using the asymmetric Birch reductive alkylation.

Undergraduate Research
Advisor: Prof. Cynthia Bauerle

Hamline University
Sept. 1993 - May 1994

- Development of a procedure to form micelles to be extended for use in the undergraduate biochemistry laboratory course.

TEACHING EXPERIENCE

Teaching Assistant
University of Texas at Austin

June 2000 - Sept. 2000

- Instructor for an undergraduate organic chemistry lab course
- Prepared lectures, mentored students, and graded reports while maintaining a safe environment

UTeach Coordinator
University of Texas at Austin

Sept. 2000 - Dec. 2001

- Organized over a hundred elementary school teachers and paired them with undergraduate students interested in teaching science
- Supervised twelve undergraduate teaching assistants and all sections of the course

Teaching Assistant*Rensselaer Polytechnic Institute*

Aug. 1998 – May 1999

- Head instructor for an undergraduate organic chemistry lab course
- Prepared lectures, graded reports, and wrote quizzes while mentoring students

Marine Science Field Instructor*Newfound Harbor Marine Institute*

Sept. 1994 – May 1996

Big Pine Key, FL

- Conducted classes in lab and field settings, including Coral Reef Ecology, Coastal Ecology, Shark Biology, and Algal Community Ecology
- Coordinated school groups from all over the country, including planning their curricula, supervising teaching groups, and maintaining a safe learning environment for student groups in the ocean

Youthline Outreach Coordinator*Minneapolis Park and Recreation Board*

Mar. 1992 - Sept. 1994

Minneapolis, MN

- Organized field trips for underprivileged teens including sporting events, reenactment of the underground railroad, and plane rides
- Created programs to encourage teens to participate in community events, after school activities, and sports teams
- Developed and implemented programs for youths in an inner city environment

WORK EXPERIENCE**Graduate Research Assistant***University of Texas at Austin*

Sept. 2001 – present

Austin, TX

- Progress toward a doctoral thesis in synthetic organic chemistry
- Please see attached research summary

Graduate Research Assistant*Rensselaer Polytechnic Institute*

June 1999 – May 2000

Troy, NY

- Progress toward a doctoral thesis in synthetic organic chemistry
- Research summary upon request

Peptide Chemist*BACHEM Co.*

May 1996 – June 1998

San Diego, CA

- Synthesis and purification of over 75 custom and catalog peptides
- Trained in cGMP production of peptides for pharmaceutical use

Technician's aide
3M Center, Industrial Tapes and Specialties Division

Sept. 1992 – May 1994
St. Paul, MN

- Testing the properties of newly designed adhesives

PUBLICATIONS / PRESENTATIONS

Amorde, S. M.; Judd, A. S.; Martin, S. F., "Cascade Iminium Ion Reactions for the Facile Synthesis of Quinolizidines. Concise Syntheses of (\pm)-Epilupinine and (-) Epimyrtine." *Org. Lett.* **2005**, 7, 2031-2033.

Amorde, S. M., Judd, A., Martin, S. F., "Cascade Iminium Ion Reactions for the Facile Synthesis of Indolizidines and Quinolizidines. Concise Syntheses of (\pm)-Epilupinine, (\pm)-Tashiromine, (-) Epimyrtine." (*Full Paper*) in preparation

227th ACS National Meeting, 2004, Anaheim, CA. Martin, Stephen F.; Amorde, Shawn M. "A novel cascade reaction to form indolizidine and quinolizidine alkaloids: Facile syntheses of (\pm)-epilupinine and (\pm)-tashiromine."

American Chemical Society Southwest Regional Meeting, 2002, Austin, TX. Martin, S. F., Amorde, S. M., Judd, A., "A Cascade Approach Toward Indolizidines and Quinolizidine Alkaloids."

CURRENT AFFILIATIONS

- American Chemical Society
- Iota Sigma Pi, Honors Sorority for Women in Chemistry

REFERENCES UPON REQUEST