

ANNA C. ABOUD

CURRICULUM VITAE

aaboud@westmont.edu, annaaboud.com
Westmont College, Santa Barbara, CA 93108

ACADEMIC DEGREES AND CERTIFICATIONS

- 2014 – 2019 Ph.D. in Mathematics, Iowa State University
Thesis title: A Dualized Kaczmarz Algorithm for Hilbert and Banach Space
Advisor: Eric Weber
- 2012 – 2015 Alaska Teaching Certification
Secondary Mathematics and German Endorsement
Highly qualified status in Mathematics, German, and English
- 2010 – 2012 Master of Arts in Secondary Education, University of Alaska Anchorage
Advisor: Sunny Mall
- 2006 – 2010 Bachelor of Science, Wheaton College
Majors: Mathematics, German
Advisor: Mary Vanderschoot

RESEARCH INTERESTS

Mathematics: Computational Harmonic Analysis, Functional Analysis, Frame Theory
Mathematics Education: Teacher Education, Curriculum Development, Motivation Theory

EMPLOYMENT

- 2019 Assistant Professor, Westmont College
- 2018 – 2019 Curriculum Developer, Iowa State University and the Howard Hughes Medical Institute
- 2018 Course Instructor, Iowa State Office for Precollegiate Programs for Talented and Gifted
- 2017 – 2018 Lead Teaching Assistant, Department of Mathematics, Iowa State University
- 2014 – 2018 Teaching Assistant, Department of Mathematics, Iowa State University
- 2013 – 2014 Adjunct Professor of Mathematics, University of Alaska Anchorage
- 2012 – 2013 Secondary Mathematics Teacher, Birchwood Christian School

RESEARCH PROJECTS

- Aug 2018 – 2019 Research Assistant
National Science Foundation: Algorithms for Threat Detection: Efficient and Stable Algorithms for Non-Euclidean Regression in Discrete Geometries
Principal Investigator: Eric Weber
Developed theoretical groundwork for a Kaczmarz algorithm extension for use in anomaly detection
Worked to show the robustness of certain algorithms in large data sets when exposed to perturbation
- 2017 – 2018 Research Assistant
Howard Hughes Medical Institute: Engage to Excel
Principal Investigators: Craig Ogilvie, Heather Bolles, Amanda Baker
Analyzed quantitative data to evaluate the efficacy of new teaching methods in Calculus I classes at Iowa State University
Designed a measurement used to evaluate the incoming competency of Calculus I students
Coordinated, conducted, and coded two rounds of student interviews for use in a qualitative study involving student engagement in Calculus II

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CONFERENCE AND WORKSHOP PRESENTATIONS

- Apr 2019 An Efficient Algorithm for Perturbed Data Sets Association for Women in Mathematics Research Symposium, Rice University
- Jan 2019 A Dual Kaczmarz Algorithm Joint Mathematics Meetings, Baltimore, MD
- Jan 2019 Two Studies in Team Based Learning Joint Mathematics Meetings, Baltimore, MD
- Nov 2018 A Dual Kaczmarz Algorithm Mid-Atlantic Analysis Meeting, Virginia Tech
- Oct 2018 A Dual Kaczmarz Algorithm 3rd Annual Northeastern Analysis Meeting, SUNY New Paltz
- Oct 2018 Two Studies in Team Based Learning

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CONFERENCES AND WORKSHOPS ATTENDED

- Apr 2019 Association for Women in Mathematics Research Symposium, Houston, TX
- Jan 2019 Joint Mathematics Meetings, Baltimore, MD
- Nov 2018 Mid-Atlantic Analysis Meeting, Blacksburg, VA
- Oct 2018 3rd Annual Northeastern Analysis Meeting, New Paltz, NY
- Oct 2018 North Central MAA Section Meeting, Marshall, MN
- Oct 2018 Algorithms for Threat Detection, Washington, D.C.
- Oct 2018 Iowa MAA Section Meeting, Sioux City, IA
- Aug 2018 Mathfest, Denver, CO
- Jun 2018 CMBS Conference on Harmonic Analysis: Smooth and Non-Smooth, Ames, IA
- May 2018 7th International Conference on Computational Harmonic Analysis, Nashville, TN
- Apr 2018 Midwest Women in Mathematics Symposium, West Lafayette, IN
- Feb 2018 RUME (Research in Undergraduate Mathematics Education), San Diego, CA
- Feb 2018 February Fourier Talks, College Park, MD
- Oct 2017 Iowa-Nebraska-Kansas Functional Analysis Seminar, Lincoln, IA
- Sept 2017 American Mathematical Society Sectional Meeting, Orlando, FL
- Aug 2017 Team Based Learning Workshop, Ames, IA
- Apr 2017 Iowa-Nebraska-Kansas Functional Analysis Seminar, Creighton, NE
- Oct 2016 Iowa-Nebraska-Kansas Functional Analysis Seminar, Des Moines, IA
- June 2016 Noncommutative Analysis Workshop, Iowa City, IA
- Apr 2016 Iowa-Nebraska-Kansas Functional Analysis Seminar, Des Moines, IA

AWARDS AND HONOR SOCIETIES

- 2019 Midwestern Association of Graduate Schools Excellence in Teaching - Honorable Mention
(2nd place out of over 180 graduate institutions)
- 2019 Iowa State University Outstanding Teaching Assistant
(Awarded to one PhD student at Iowa State each year)
- 2018 J.L.L Hinrichsen Teaching Award
- 2018 Iowa Section Project NEXt Fellow
- 2018 Graduate and Professional Student Senate Teaching Award
- 2017 Iowa State Graduate College Teaching Excellence Award
- 2017 Wakonse Fellowship for College Teaching
- 2012 Kappa Delta Pi, International Honor Society in Education
- 2010 Wheaton College Scholastic Honor Society

MEMBERSHIPS

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| American Mathematical Society | Association of Christians in the Mathematical Sciences |
| Association for Women in Mathematics | National Council of Teachers of Mathematics |
| American Educational Research Association | Alaska Council of Teachers of Mathematics |
| Mathematics Association of America | |