

# MIC FENECH

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## EDUCATION

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**The University of Texas at Austin**, Austin, TX  
PhD, STEM Education (expected 2023)

**Sacred Heart University**, Fairfield, CT  
MAT, Education, 2014  
BS, Mathematics, 2013

## RESEARCH

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**Graduate Research Assistant**, The University of Texas at Austin

- **Texas Mindset Initiative**, August 2021-Present
  - Assisted in crafting metrics that measure teacher mindsets
  - Analyzed student- and teacher-level outcomes using multilevel models
  - Conducted quantitative research to identify how mindsets predict achievement
- **STEM Evaluation Services**, August 2021-Present
  - Identified impacts of Computing Educator Diversity Initiative (CEDI)
  - Analyzed implementations of NGSS-aligned modules in OpenSciEd
  - Conducted mixed methods research to find out what impacts CS certification
- **Quantum Computing Project**, August 2019-July 2021
  - Developed curriculum for secondary Quantum Computing class at Akins High School
  - Assisted in implementing class content during the 19-20 and 20-21 school years
  - Conducted mixed methods research to find out why students pursue STEM

## PROFESSIONAL APPOINTMENTS

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**Mathematics Teacher**, Akins High School in Austin Independent School District, 2015-2019  
**Mathematics Teacher**, Harding High School in Bridgeport Public Schools, 2014-2015

## AWARDS

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**PROFESSIONAL DEVELOPMENT AWARD**, THE UNIVERSITY OF TEXAS AT AUSTIN, 2021  
**THE BASCOMBE ROYALL AND FRANCES FALLON FULLER SCHOLARSHIP**, 2020

## PEER-REVIEWED JOURNAL PUBLICATIONS

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Walsh, J. A., Fenech, M., Tucker, D. L., Riegle-Crumb, C., & La Cour, B. R. (2021). **Piloting a full-year, optics-based high school course on quantum computing**. *Physics Education*, 57(2), 025010.

## PEER-REVIEWED CONFERENCE PAPERS & PRESENTATIONS

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**CONNECTED LEARNING SUMMIT**, VIRTUAL, JULY 2021 – THE QUANTUM COMPUTING PROJECT

## TEACHING EXPERIENCE & COURSE DEVELOPMENT

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**Teaching Assistant:**

- Project-based Instruction – Fall 2021 (The University of Texas at Austin)
- Classroom Interactions – Fall 2020, Spring 2021 (The University of Texas at Austin)

## PROFESSIONAL MEMBERSHIPS

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National Council of Teachers of Mathematics  
Mathematical Association of America