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## PROFESSIONAL POSITION

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2021-Present    Assistant Professor of Education, Chair of Secondary Education, Grace College,  
Winona Lake, IN

## EDUCATION

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2021            Ph.D. in Mathematics Education, Michigan State University  
Dissertation: *Influence of Preservice Elementary Teachers' Mathematics Experiences on Their Attitudes and Beliefs about Mathematics*

2007            B.A. in Secondary Education Mathematics, Calvin University

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## PUBLICATIONS and PRESENTATIONS

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### Publications

Expert Committee (2025). Archimedes Math Standards. *National Association of Scholars and Freedom in Education*.

**Voogt, K.,** & Bieda, K. (2022). Filling a “Void”: The Mathematical Quality in Planning Protocol for Mathematics Teacher Educators. *Mathematics Teacher Educator*, 11(1), 26-39.

Senk, S. L., Thompson, D. R., Chen, Y.-H., **Voogt, K.,** & Usiskin, Z. (2022). *The Van Hiele Geometry Test: History, Use, and Suggestions for Revisions*. University of Chicago School Mathematics Project. (<https://ucsm.uchicago.edu/resources/van-hiele/>)

Voogt, K. J. (2021). *Influence of preservice elementary teachers' mathematics experiences on their attitudes and beliefs about mathematics*. Dissertation, Michigan State University. ProQuest.

Chen, Y.H., Senk, S.L., Thompson, D.R., & **Voogt, K.J.** (2019). Examining psychometric properties and level classification of the van Hiele Geometry Test using CTT and CDM frameworks. *Journal of Educational Measurement* 56(4), 733-756.

Senk, S.L., Thompson, D.R., Chen, Y.H., & **Voogt, K.J.** (2018). Exploring models of secondary geometry achievement. In Herbst, P., Cheah, U. H., Jones, K. and Richard, P. R. *International Perspectives on the Teaching and Learning of Geometry in Secondary Schools*. Cham, Switzerland: Springer.

## Proceedings, Presentations, and Podcasts

- Thanheiser, E., & **Voogt, K.** (2023). Filling a “Void”: The Mathematical Quality in Planning Protocol for Mathematics Teacher Educators [Audio podcast episode]. In Mathematics Teacher Educator Podcast, AMTE & NCTM, <https://mtepodcast.amte.net/49>.
- Arbaugh, F., LaRochelle, R., Do, S., Cunningham, A., & **Voogt, K.**, Cirillo, M., & Bieda, K. (2020). Real-time coaching with secondary preservice teachers: The practices of mathematics teacher educators. Brief Research Report accepted for the 42<sup>nd</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Mazatlan, Sinaloa, MX.
- Bieda, K., Cirillo, M., Arbaugh, F., **Voogt, K.**, Gregg, J & Orr, S. (2020). The university teaching experience: Cross-Institutional partnership to develop a new model of early field experience. Session presented at the 2020 Michigan Association for Mathematics Teacher Educators Conversations among Colleagues Virtual Conference, Ann Arbor, MI.
- Karunakaran, M., **Voogt, K.** (2020). Addressing elementary pre-service teachers' mathematics anxiety. *Proceedings of the 24th Annual Conference of the Association of Mathematics Teacher Educators*. Phoenix, AZ.
- Orr, S., Bieda, K., Hale, M.W., **Voogt, K.** (2020). Practicing purposeful questioning: Alignment between secondary prospective teachers' planned and enacted questions during early field experiences. *Proceedings of the 24th Annual Conference of the Association of Mathematics Teacher Educators*. Phoenix, AZ.
- Bieda, K., **Voogt, K. J.** (2019). Mathematical errors when teaching: A case of secondary mathematics prospective teachers' early field experiences. *Proceedings of the 22<sup>nd</sup> Annual Conference on Research in Undergraduate Mathematics Education*. Oklahoma City, OK.
- Voogt, K. J.** (2018). Self-efficacy beliefs of adults who dislike math: Challenging how we measure the sources. *Proceedings at the North American Chapter of the International Group for the Psychology of Mathematics Education*. Greenville, SC.
- Voogt, K.** (2018). Reasons for dislike: A retrospective study of adults' math experiences. *Poster presented at the National Council of Teachers of Mathematics 2018 Research Conference*. Washington, D.C.
- Bae, Y., Satyam, V. R., Levin, M., **Voogt, K.**, & Smith, J. P. (2018). How do students experience the transition to proof?. *Presentation at 2018 Joint Math Meetings*. San Diego, CA.
- Bae, Y., Smith, J. P., Levin, M., Satyam, V. R., & **Voogt, K.** (2018). Stepping through the proof door: Undergraduates' experience one year after an introduction to proof course. *Proceedings of the 21<sup>st</sup> Annual Conference on Research in Undergraduate Mathematics Education*. San Diego, CA.
- Satyam, V. R., Levin, M., Grant, T. J., Smith, J. P., **Voogt, K.**, & Bae, Y. (2018). Graphing as a tool for exploring students' affective experience as mathematics learners. *Paper presented at the 21<sup>st</sup> Annual Conference on Research in Undergraduate Mathematics Education*. San Diego, CA.

- Bieda, K., Dillman, B., Gundlach, M., & **Voogt, K.** (2017). Supporting learning to teach in early field experiences: The UTE model. *Proceedings at the North American Chapter of the International Group for the Psychology of Mathematics Education*. Indianapolis, IN.
- Levin, M., Smith, J. P., Satyam, V. R., Bae, Y., & **Voogt, K.** (2017). Exploring student perspectives on the transition to proof in collegiate mathematics. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- Levin, M., Smith, J., Satyam, R., Bae, Y., & **Voogt, K.** (2017). Student perspectives on the Transition to Proof in Collegiate Mathematics. *Presentation to the European Association of Research on Learning and Instruction*. Tampere, Finland.
- Satyam, V.R., Levin, M., Smith, J., Bae, Y., & **Voogt, K.**, (2017). Students' experiences in a transition to proof course. *Presentation to Mathfest. Mathematical Association of America Meetings*. Chicago, USA.
- Smith, J. P., Levin, M., Bae, Y., Satyam, V. R., & **Voogt, K.** (2017). Exploring undergraduates' experience of the transition to proof. In A. Weinberg, C. Rasmussen, J. Rabin, M. Wawro, & S. Brown (Eds.), *Proceedings of the 20<sup>th</sup> Annual Conference on Research in Undergraduate Mathematics Education* (pp. 298–310). San Diego, CA.

## AWARDS AND HONORS

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|              |                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2024         | The Cindy Katris Volunteer Award – Awarded by Baker Youth Club, and received on behalf of the Grace College School of Education |
| 2022         | Green Awards Recipient, Grace College                                                                                           |
| 2018         | Dr. Marilyn Zweng Endowed Graduate Student Award in Mathematics Education                                                       |
| 2017         | Member of The Honor Society of Phi Kappa Phi                                                                                    |
| 2007         | Beversluis Award in Christian Philosophy of Education                                                                           |
| 2002,'05,'06 | Presidential Scholarship                                                                                                        |
| 2004, 2005   | Zwier Scholarship for Excellence in Mathematics Education                                                                       |
| 2003, 2004   | Dean's Scholarship                                                                                                              |
| 2003-2007    | Member of Calvin College Dean's List                                                                                            |

## GRANTS AND FELLOWSHIPS

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|------|----------------------------------------------------------------------|
| 2021 | College of Natural Science Spring Dissertation Completion Fellowship |
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2016,'17,'18,'19,'20     College of Natural Science Summer Dissertation Continuing Fellowship

2017                         Carol and Michael LeMense Graduate Fellowship

2015,'16,'17,'18,'19     Lappan-Phillips-Fitzgerald (LPF) Fellowship, Michigan State University

## **UNIVERSITY RESEARCH EXPERIENCES**

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2017-2021     University Teaching Experience for Mathematics Prospective Teachers (UTEMPT)  
                     Funded by NSF IUSE Program  
                     Graduate Assistant, collecting and analyzing video data, 2017-Present  
                     Lead/Mentor Teacher in the UTE Model teaching laboratory in a section of College Algebra Fall 2017  
                     Analyzed the mathematical content errors made by prospective teachers in their lesson plans during their microteaching lab experience  
                     Developed a protocol for MTEs to address bridging the gap between prospective teachers' mathematical content knowledge and their mathematical knowledge for teaching

2019             Addressing Elementary Pre-service Teachers' Mathematics Anxiety  
                     Qualitatively analyzed interview and other data sources  
                     Quantitatively analyzed survey data  
                     Presented results in a brief report at the 2020 AMTE annual conference

2017-2018     A Retrospective Study of Self-Efficacy Beliefs of Adults Who Dislike Mathematics Research Practicum  
                     Wrote and defended a proposal, collected and analyzed data, and successfully defended results in January, 2018  
                     Presented results as a poster at the 2018 NCTM Research Conference and brief report at the 2018 North American Chapter of the International Group for the Psychology of Mathematics Education Conference

2016-2017     Supporting Learning to Teach in Early Field Experiences: The UTE Model  
                     Funded by NSF IUSE program  
                     Analyzed videos of students teaching the Developmental Mathematics course using the Instructional Quality Assessment and TRU Math rubric  
                     Co-authored and presented a research paper at the 2017 North American Chapter of the International Group for the Psychology of Mathematics Education Conference

2016-2019     Exploring Models of Secondary Geometry Achievement  
                     Revised and expanded proposal with Drs. Sharon Senk and Denisse Thompson for the International Council of Mathematics Education conference (#13) held in Hamburg, Germany  
                     Co-authored (with Sharon, Denisse, and Yi-Hsin Chen) a chapter for a Topic Study Group book and a Journal Article

- 2017      Exploring Undergraduates' Experience of the Transition to Proof  
Project under the direction of Drs. Jack Smith (Michigan State University) and  
Mariana Levin (Western Michigan University)  
Analyzed interview data from students in the Transition to Proof course.
- 2015      Reciprocal Noticing  
Assisted Dr. Higinio Dominguez in summarizing theories on teacher noticing.

## **UNIVERSITY TEACHING APPOINTMENTS**

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### **Grace College**

- 2021-Present    SED 1110: Foundations of Mathematics for Elementary Teachers
- 2022-Present    SED 4210: Methods of Teaching Elementary Mathematics
- 2022-Present    SED 4650: Methods of Teaching Secondary Mathematics
- 2022-Present    SED 2500: Teaching in a Pluralistic Society
- 2023-Present    SED 3600: Teaching in the Middle and High School
- 2021-2023      SED 2210: Responsive and Differentiated Instruction

### **Michigan State University [Instructor of Record]**

- 2020            TE 804: Reflection and Inquiry in Teaching Practice II
- 2018            Math 202: Elementary Mathematics for Teachers, II
- 2017            Math 201: Elementary Mathematics for Teachers, I

### **Michigan State University [Teaching Assistant]**

- 2019            TE 408: Math Methods for Secondary PSTs II (Lead Teaching Assistant)
- 2018            TE 407: Math Methods for Secondary PSTs I (Lead Teaching Assistant)
- 2017            Math 103E: College Algebra Workshop (Lead Instructor)
- 2016            MTH 396: Capstone for Secondary Education (Lead Teaching Assistant)
- 2015            MTHE 430: History of Mathematics (Lead Teaching Assistant)

## **K-12 TEACHING EXPERIENCES**

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- 2009-2015      **High School Math Teacher, Taylor High School**  
Katy, TX  
Taught Academic Geometry, Geometry PreAP/GT, Algebra II PreAP/GT, and  
PreCalculus PreAP/GT.

Co-taught two special education inclusion Academic Geometry classes.

2008-2009     **High School Math Teacher, Oconomowoc High School**  
Oconomowoc, WI  
Taught IB SL Math, Precalculus, Geometry, and Algebra I.

2008           **High School Math Teacher, Spanish River High School**  
Boca Raton, FL  
Taught Geometry and Integrated Math III.

2007           **High School Math Teacher, Gallup High School**  
Gallup, NM  
Taught Geometry and Algebra II.

## **MENTORING EXPERIENCES**

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2016-2021     Mentored first-year doctoral students in the Program in Mathematics Education.

2017-2021     Ph.D. practicum committee member, Program in Mathematics Education.

## **OTHER PROFESSIONAL ACTIVITIES AND AFFILIATIONS**

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### **Service to the Profession**

2016           13th International Congress on Mathematical Education  
Used German language knowledge to assist Gail Burrill in organizing meetings with German mathematics teachers for the ICME-13 conference in Hamburg, Germany.

### **Service to the Institution**

2025-Present   Chair of the Secondary Education Program and Teacher Education Committee, Grace College

2024-Present   Chair of the Human Subjects Research Committee, Grace College

2023-Present   Co-Facilitator of Faculty Professional Development on Providing Feedback

2022-Present   Member of the Faith, Learning, & Scholarship Committee, Grace College

2023-2024      Member of the Core Committee, Grace College

2021-2025      Member of the Teacher Education Committee, Grace College

2020-2021      Program in Mathematics Education Graduate Student Organization President, Michigan State University

2019-2020      Student Ambassador to the Program in Mathematics Education, Michigan State University

2015-2017 Recruitment Committee Member, Program in Mathematics Education Graduate Student Organization, Michigan State University

**Field Instructor**

2023-2024 College Supervisor for Secondary Mathematics, Grace College

2016-2017 Worked with Michigan State University Interns through observations, discussions, and assessments of progress to improve their practice.

**Professional Memberships**

2025-Present Hoosier Association of Mathematics Teacher Educators (HAMTE)

2015-2023 National Council of Teachers of Mathematics

2017-2019 North American Chapter of the International Group for the Psychology of Mathematics Education

2019-2023 Association of Mathematics Teacher Educators

2020-2021 Michigan Association of Mathematics Teacher Educators