

# COŞKUN ERDEN

School of Education 1620j◊ Lagomarcino Hall, 901 Stange Rd.,◊ Ames, IA 50011-1041  
(515) 715 35 47 cerdent@gmail.com

## EDUCATION

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**Ph.D. in Education Emphasis in Mathematics Education** *Expected graduation date: July, 2022*  
Iowa State University, Ames, IA

**M.S. in Statistics** *Expected graduation date: July, 2022*  
Iowa State University, Ames, IA

**M.A. in Guidance and Psychological Counseling (Thesis)** *2015*  
Fatih University, Istanbul, Turkey

**Non-degree student, Psychology** *2012-2013*  
Boğaziçi University, Istanbul

**B.S. in Teaching Mathematics** *2000*  
Boğaziçi University, Istanbul, Turkey

## CERTIFICATIONS

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**Community for Advancing Discovery Research in Education(CADRE) 2020-2021 Fellows Program Certificate** *10/12/2021*  
National Science Foundation

**Applied Research Methods in the Human Sciences Certificate (Quantitative)** *2020*  
School of Education, Iowa State University, Ames, IA

## PUBLICATIONS

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**Erden, C.** (2022). *A Comparative Analysis of First-generation Immigrant Students' Mathematics Performance in PISA 2018 Assessment*. Proposal submitted to American Education Research Association (AERA) Online Paper repository.

Jackson, C., Tank K.M., Appelgate M.H., Jurgenson K., Delaney A. & **Erden, C.** (2020). History of Integrated STEM Curriculum. In Johnson, C. C., Mohr-Schroeder, M. J., Moore, T. J., English, L. D. (Eds.). *Handbook of Research on STEM Education*. (pp. 169-183). Routledge.

**Erden, C.** (2019). *Effect of number characteristics on performance in computational estimation*. In Otten, S., Candela, A. G., de Araujo, Z., Haines, C., Munter, C. (ed.). Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. (pp. 1896-1897). St Louis, MO: University of Missouri.

**Erden, C.** (2007). *Vectors and analytic geometry in space*. Zambak Publications, Istanbul, Turkey

## CONFERENCE PRESENTATIONS

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**Erden, C.** (2022 April, 22-25): *A Comparative Analysis of First-generation Immigrant Students' Mathematics Performance in PISA 2018 Assessment*. American Education Research Association 2022 Annual Meeting, San Diego, California

I, Ji Yeong, **Erden, C.**, Betsy Araujo-Grando, (2022 April, 22-25): *Positioning Emergent Bilinguals in Mathematics: A Case Study of a Middle School Teacher*. American Education Research Association 2022 Annual Meeting, San Diego, California

**Erden, C.** (2022 April, 22-25): *An Investigation of the Role of Arrival Age in Immigrant Students' Mathematics Performance*. World Education Research Association 2022 Annual Focal Meeting, San Diego, California

I, Ji Yeong, **Erden, C.**, Betsy Araujo-Grando, (2022 February, 10-12): *Math Teacher Positioning on Emergent Bilinguals in Situated Professional Development*. Association of Mathematics Teacher Educators 2022 Annual Conference, Las Vegas, Nevada

I, Ji Yeong, **Erden, C.**, Betsy Araujo-Grando, (2021 September, 22-25): *Transform word problem to 5-Act Task for Emergent Bilinguals*. National Council of Teachers of Mathematics 2021 Annual Meeting & Exhibition, Atlanta, Georgia (Virtual Conference)

**Erden, C.**, (2021 March, 20): *Is "learning and teaching statistics" a genuine component pre-service teachers' professional agenda?* International Consortium for Research in Science & Mathematics Education 2021 Virtual Conference

**Erden, C.**, (2019 November, 14-17): *Effect of Number Characteristics on Performance in Computational Estimation*. Poster presented at Psychology of Mathematics Education-North America, 2019, St. Louis, Missouri

**Erden, C.**, (2015, April): *Stress-coping methods of Turkish teachers working abroad: Kosovo and Albania cases*. Master Thesis presented at the first International Graduate Students Conference On Social Sciences, Fatih University, Istanbul

## UNIVERSITY EXPERIENCE (RESEARCH)

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*Implementing Mathematical Modeling for Emergent Bilinguals (IM2 EB)*. Faculty Early Career Development Program (CAREER), National Science Foundation (Award number: 1941668). September 2020 – August 2025. \$835,030, funded. **Role: Research Assistant.** 2020 - Present

*NEWTON, an augmented reality (AR) application-based engineering puzzle game for K-2 age children that combines design, simulation, programming, STEM learning, and collaboration utilities for use in classrooms, after school programs, and at home*. PI: Christopher Whitmer, Ph.D. Awarded as a subcontract to Christa Jackson, Ph.D. from Parametric Studio. **Role: Research Assistant.** 2019 - 2020

*Design environment for Educator – Student Collaboration Allowing Real-Time Engineering-centric STEM (DESCARTES) exploration in middle grades.* Institute of Education Sciences, Department of Education Small Business Innovation Research. PI: Christopher Whitmer, Ph.D. Awarded as a subcontract to Christa Jackson, Ph.D. from Parametric Studio. **Role: Research Assistant.** 2018 - 2019

## UNIVERSITY EXPERIENCE (TEACHING)

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**Instructor** *Spring 2021*  
EDUC 426: Principles of Secondary Education  
School of Education, Iowa State University

**Instructor** *Fall 2020*  
EDUC 426: Principles of Secondary Education  
School of Education, Iowa State University

**Guest Instructor** *Spring 2020*  
EDUC 426: Principles of Secondary Education  
School of Education, Iowa State University

**Teaching Assistant** *Spring 2019*  
CI 508: Algebra in the K-12 Classrooms  
School of Education, Iowa State University

## UNIVERSITY EXPERIENCE (SERVICES)

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Graduate Student Representative in School of Education Graduate Curriculum Committee *2020-Present*  
Iowa State University, Ames, IA

Search committee member for visiting assistant professor position *2019-2020*  
Iowa State University, Ames, IA

School of Education senator at Graduate and Professional Student Senate *2018-2019*  
Iowa State University, Ames, IA

## PROFESSIONAL SERVICE

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Proposal reviewer for 2022 AERA Annual Meeting (Division D - Measurement Research Methodologies) *2021*

Proposal reviewer for the 43rd annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education (PME-NA) *2021*

## SCHOLARSHIPS

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Presidential Scholarship  
Iowa State University

*2017-2019*

## **AWARDS**

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Teaching Excellence Award *2021*  
Iowa State University

Dr. Sampson Graduate Research and Educational Leadership Award *2019*  
School of Education, Iowa State University

Graduate and Professional Student Senate Award *2019*  
Iowa State University

## **PROFESSIONAL DEVELOPMENT**

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Community for Advancing Discovery Research in Education (CADRE) fellow *2020 - 2021*  
Education Development Center

AERA 2021 Virtual Research Learning Series course, RL2021-5 Designing Adequately Powered Cluster and Multisite Randomized Trials to Detect Main Effects, Moderation, and Mediation *July 07, 2021*

AERA 2021 Virtual Research Learning Series course, RL2021-4: Analyzing Large-Scale Assessment Data Using R *June 22, 2021*

AERA 2021 Virtual Research Learning Series course, RL2021-3: Using R Software for Item Response Theory (IRT) Model Calibrations *June 15, 2021*

The Midwest Big Data Summer School *May 17 - 20, 2021*  
Iowa State University

AERA 2021 Virtual Research Learning Series course, PDC-03: Multilevel Modeling with International Large-Scale Assessment Databases Using the HLM Software Program *April 15, 2021*

Enhancing Statistics Teacher Education through E-Modules (ESTEEM) webinar *March 11, 2021*

## **PROFESSIONAL MEMBERSHIPS**

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American Educational Research Association (AERA) (Member) *2019 - Present*

National Council of Teachers of Mathematics (NCTM) (Member) *2019 - Present*

Association of Mathematics Teacher Educators (AMTE) (Member) *2019 - Present*

**K-12 TEACHING EXPERIENCE**

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**Gjinnazi Hasan Nahi***Mathematics Teacher and Vice Principal*

July 2014 - July 2017

*Prishtine, KOSOVO*

General coordinator of intelligence contest EUREKA in 2015 and in 2016. EUREA is held nationwide in Kosovo and approximately 1800 ninth-graders participate each year.

**Fem Akademi***Mathematics Teacher (Part-time)*

September 2013 - June 2014

*Istanbul, TURKEY*

Teaching for undergraduate students who are preparing for KPSS (a test required by state institutions for employment)

**Anafen***Mathematics Teacher (Part-time)*

September 2012 - June 2013

*Istanbul, TURKEY*

Teaching for ninth graders who are preparing for LYS (a test used in registration for high schools)

**Memorial International School Of Tirana***Mathematics Teacher*

July 2011 - June 2012

*Tirane, ALBANIA***Gülistan and Turgut Özal Educational Institutions***Mathematics Teacher & Head of Mathematics Department*

July 2003 - June 2011

*Tirane, ALBANIA*

Head of Mathematics department from 2006 to 2009

Instructor of Mathematics Olympiad Team of Mehmet Akif Boys College from 2003 to 2006 and from 2009 to 2011

Tutor at SAT and YOS preparation programs for students planning to study abroad.

General coordinator of Konkursi Shkencor in 2008. Konkursi Shkencor is a science contest organized by Mehmet Akif Colleges for eighth-graders nationwide in Albania. Approximately 200 students took part in 2008.

General coordinator of ASEF-2009. ASEF (Albanian Science and Engineering Fair) was an affiliated fair of Intel-ISEF (International Science and Engineering Fair). Those who took top degrees in different branches of sciences in ASEF represented Albania in Intel-ISEF (USA).

**Tolerance High School***Mathematics Teacher & Vice Principal*

July 2002 - June 2003

*Zamboanga, PHILIPPINES***Chong Hua High School***Mathematics Olympiad Instructor for advanced group*

September 2002 - January 2003

*Zamboanga, PHILIPPINES***TECHNICAL SKILLS**

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**R, SPSS, SAS, HLM, Mplus, Dedoose****LANGUAGES**

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**Turkish** Native Language**English** Advanced**Albanian** Intermediate