

CURRICULUM VITAE

Iuliia (Julia) Inozemtseva

Associate Teaching Professor

School of Mathematical and Statistical Sciences

Arizona State University

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YouTube: <https://www.youtube.com/c/MathSlopeswithJulia>

PROFESSIONAL APPOINTMENTS

| | |
|---|---------------------|
| Arizona State University - School of Mathematical and Statistical Sciences (SoMSS) | 2017-current |
| Associate Teaching Professor (Lecturer Senior) | 2022-current |
| Assistant Teaching Professor (Lecturer) | 2017-2022 |
| University of Utah – Department of Mathematics | 2014-2017 |
| Graduate Instructor / Research Assistant | |
| Georgia Southern University - Department of Mathematics | 2012-2014 |
| Graduate Teaching Assistant / Tutor | |
| Odessa National University, Ukraine - Department of Mathematics | 2010-2012 |
| Lecturer / Research Assistant | |
| University of Szeged, Hungary - exchange program | 2011, 2012 |
| International Teaching Assistant | |
| Richelieu Lyceum, Ukraine | 2009 |
| Math Teacher | |

EDUCATION

| | | |
|-------------------|--|-----------------------------------|
| M.S. | University of Utah, Utah, USA | August 2014 – Summer 2017 |
| | M.S. in Applied Mathematics | |
| | Emphasis in modeling in mathematical biology | |
| M.S. | Georgia Southern University, Georgia, USA | August 2012 – August 2014 |
| | M.S. in Mathematics | |
| | Emphasis in mathematical modeling of gene mutation in predator-prey model | |
| M.S. | Odessa National University, Odessa, Ukraine | September 2010- May 2012 |
| with Honor | M.S. In Mathematics, with a teacher-training component | |
| | Emphasis in Differential Equations | |
| | Program includes Certification in Teaching Mathematics (University level) | |
| B.S. | Odessa National University, Odessa, Ukraine | September 2006 – July 2010 |
| with Honor | B.S. in Mathematics, with a teacher-training component | |
| | Emphasis in Differential Equations | |
| | Program includes Certification in Teaching Mathematics (K-12 level) | |

INTERNATIONAL COLLABORATIONS

| | |
|---|----------------------|
| with Prof. Dr. Oleksandra Antoniuk, American University Kyiv (AUK), Ukraine | 2022-2024 |
| Designing courses for the Bachelor Program in Software Engineering, AUK | 300+ hours |
| <ul style="list-style-type: none">Met AUK students, faculty and the dean during their first ASU visit: campus & library tours, lunch/dinner meetings. Made significant connections and celebrated SoMSS, ASU contribution | April of 2024 |
| <ul style="list-style-type: none">Created math courses for the newly established world-class university in Kyiv, Ukraine, powered by ASU; | 2022-2024 |
| <ul style="list-style-type: none">Created and set up every single homework, exam and quiz for Calculus I, Calculus II, Calculus III; | |
| <ul style="list-style-type: none">Created an international collaboration between SoMSS (ASU) and AUK; | |
| <ul style="list-style-type: none">Reported to SoMSS faculty and directors on 09/21/2023: https://math.asu.edu/collaboration-kyiv | |

COLLABORATIONS WITH OTHER ASU INSTITUTIONS

1. **EdPlus**: “MathSpine” project: Designing & recording videos/notes (interconnected courses) 2018, 2020, 2021, 2024
2. **OLLI** (Osher Lifelong Learning Institute): Designing and teaching classes 2024-2025
3. **Thunderbird** School of Global Management: SoMSS representative, via AUK exchange program 2024
4. **CINTANA** Education: collaboration with AUK and Dr. Cagri Bagcioglu, Regional CEO 2022-2024
5. **Melikian Center, Affiliate**: Mentoring, grant application (with David P. Brokaw, Program Coord) 2022-current
6. **Academic Support Network**: Project “Tutorbot” – worked as a Faculty Expert 2024

~ **OTHER**: Dr. Peyam Tabrizian, Brown University: Calculus III, Math Biology, Differential Equations 2021-2024

HONORS THESIS RESEARCH WITH UNDEGRAD STUDENTS

1. **(ongoing)** Honors Thesis with **five (5) students** (as second reader, mentor): 2024-current
Title: “*Thesis Pathway: Global Citizen*” with Dr. Jakubczak, Melikian Center
 - William Blake Key – biochemistry, medicine
 - Joshua Kleiner – biomedical sciences (medicine)
 - Nathan Hess – biomedical, pre-med
 - Wilhemena Hunter – business and culture
 - Theodore Mousset – supply chain management, business communication
2. **(Completed)** Sofia Blavatsky: Honors Thesis **Defense** on April 27, 2023 (committee member, mentor) 2022-2023
Title: Data Analysis and Journalism: [Misinformation on the Russian-Ukrainian War: A Case Study](#)
3. **(Completed)** Eric Ren: Honors Thesis **Defense** on September 19, 2023 (as Research Director) 2021-2023
Title: Math Education: [Additions & Improvements to College Algebra Educational Materials](#) (videos: [Integral Domain](#))
4. **(Completed)** Emma Saarinen: Honors Thesis **Defense** on August 7, 2020 (as Research Director) 2019-2020
Graph Theory, coding, languages: [Translation, Analysis, and Application of a Russian-Language Graph Theory Paper](#)

HONORS RESEARCH PROJECTS WITH UNDEGRAD STUDENTS

Number of research projects and topics: 2024 (8), 2023 (4), 2022 (4), 2018-2021 (13)

1. Mathematical Modeling of Epidemics Spread: Black Death, Malaria, Ebola in Africa, Ebola in China, Anthrax, Rabies, Gonorrhoeae, Influenza, Dengue Disease, COVID-19, HIV-AIDS;
2. Education in Prison, community outreach;
3. AI, Traffic Equations, face recognition, Machine Learning, Fourier Transform in Image Processing, Encryption;
4. Mathematical Modeling of Cancer, tumor, math in neuroscience

COMMITTEES SERVED

1. Assistant Teaching Professor **Hiring** Committee 2024-2025
2. Faculty **Affiliate** for Melikian Center for Russian, Eurasian, and East European Studies 2022-current
3. Teaching Faculty Mentoring Committee 2020-current
4. Graduate Teaching Assistant Training committee Summer, 2023
5. Diversity, Equity, Inclusion and Belonging (**DEIB**) Committee 2019-2020-2021-2022-2023
 - organizing workshops & talks, creating hiring materials and more
 - *interviewing each Lecturer candidate* as a DEIB committee member 2022
 - *interviewing each Tenure Track candidate* as a DEIB committee member 2022
6. Title VI **grant** application, Department of Education (with David P. Brokaw, MA, MBA, Program Coordinator) 2022
7. Assistant Teaching Professor **Hiring** Committee (two years) 2022-2023
8. **EdPlus “MathSpine”**: **interconnected courses** MAT117, MAT210, MAT265 - Creating Lectures & Videos 2018,2020, 2021
9. Lecturer **Hiring** Committee (three years) 2019-2020-2021
10. Instructor **Hiring** Committee Summer 2021
11. EdPlus **Hiring** Committee: Online Math Academic Success and Retention Specialist 2020

HONORS AND AWARDS

1. Invited panel speaker at the Future of Learning Community Fest, hosted by the *Office of the University Provost* 2024
2. Awarded speaker at the Women in STEM Banquet, ASU 2023
- *Science, Technology, and Innovation Mission Team associated with Next Generation Service Corps (NGSC)*
3. Professor of Impact Award – 100+ awards (ASU) 2023, 2024
4. Instructional & Service Award: [40 under 40](#): *young alumni recognition by Georgia Southern University Alumni, GA* 2022
5. [Faculty Women’s Association \(FWA\) Award for Outstanding Faculty Mentor, ASU](#) 2021
6. [Outstanding Lecturer Award in The College of Liberal Arts and Sciences at Arizona State University](#), 2020
- *first mathematician since 2007; selected from a pool of nearly 240 teaching faculty in The College of Liberal Arts and Sciences*
7. Outstanding Instruction and Service Award in the School of Mathematical and Statistical Sciences, ASU 2020
8. Nomination: ASU Faculty Women’s Association Outstanding Faculty Mentor Award, ASU 2019
9. Nomination: College of Liberal Arts and Sciences Teaching Award , ASU 2018
10. Nomination: Beacons of Excellence Award: "*In recognition of the contributions to an exceptional undergraduate educational experience at the University of Utah*", Utah 2017
11. Outstanding Graduate Assistant Honor for achievements in teaching assistance, GSU 2014
12. Nomination: Averitt Awards for Excellence in Graduate Research and Instruction, GSU 2014
- *the highest honor bestowed upon graduate students College of Graduate Studies*
13. Highest University Scholarship for excellent achievements in study and teaching, ONU, Ukraine 2006-2012
14. Teaching Assistantship, University of Utah 2014-2019
15. Nomination: HHMI International Student Research Fellowship, University of Utah 2016
16. Represented GSU at the International Agribusiness Conference & Expo, Savannah 2014
17. Teaching Assistantship, Georgia Southern University 2012-2014

ACADEMIC TALKS & WORKSHOPS DELIVERED

1. **Osher Lifelong Learning Institute (OLLI) at ASU: three sessions course, 4.5 hours total** Spring 2025
“International education: life of international students and faculty in the US” Fall 2024
2. **Osher Lifelong Learning Institute (OLLI) at ASU: three sessions course, 4.5 hours total** Fall 2024
“The Magic of Math: Global Applications in the 21st century”
3. **Future of Learning Community Fest (FOLC) on 4/14 (hosted by the [Office of the University Provost](#))** Spring 2024
“Internation Collaboration with American University Kyiv (AUK): technology and innovation ”
4. Graduate Students Seminar, SoMSS, ASU: "Application for a teaching position at the college level" Fall 2024
5. Paul Vaz Seminar, SoMSS, ASU: "Make your math classes memorable: animations, applications and technology" Fall 2024
6. **AWSiM 2024 (NAU): Contributed Talk: “Mathematical collaboration with Ukraine during the war”** Fall 2024
Round Table Discussions: *“Teaching and Mentoring International Students”*
7. Paul Vaz Math Seminar at SoMSS, ASU: *“ESL and International student: struggles and isolation”* Spring 2024
8. Early Start Program: Talk: *“Math will save the world”* and Round Table Discussions (SoMSS, ASU) Summer 2024
9. **Brown University**: invited speaker for the Joint Applied & Pure Math Teaching Symposium Fall 2023
10. **Collaboration with American University Kyiv (AUK)**, (Paul Vaz Math Seminar at SoMSS, ASU) Fall 2023
<https://math.asu.edu/collaboration-kyiv>
11. **AWSiM 2023**: Contributed Talk: *“Math will save the world: applications in education”* Fall 2023
Arizona Women’s Symposium in Mathematics, NAU, Flagstaff, AZ
12. **International Seminar – STEM talks**: Oles Honchar Dnipro National University (Ukraine): Spring 2023
“Math will save the world: math applications in medicine, AI, and much more”
13. Early Start Program: *“Math will save the world”*, (SoMSS, ASU) Summer 2023
14. Early Start Program: *“Amazing Applications of math in the real world”*, (SoMSS, ASU) Summer 2022
15. **AWSiM 2022**: Contributed Talk: *“ESL and International student: struggles and isolation”* Fall 2022
Arizona Women’s Symposium in Mathematics, Embry-Riddle Aeronautical University, Prescott, AZ
16. **AWSiM 2022**, workshop with Rhonda Olson, Chair of the DEIB committee (ASU): Fall 2022
“To speak or not? A Bystanders Dilemma”
17. Colloquium at the Department of Mathematics and the Brooklyn College: Fall 2022
“Math will save the world: math applications in medicine, AI and much more”
18. Paul Vaz Undergraduate Mathematics Seminar (PVUMS): *“Having Fun While Teaching Calculus”* Fall 2022

19. Professional Development Seminar for Graduate students: “*Writing Teaching Statements*” **Fall 2022**
- together with Diversity, Equity, Inclusion and Belonging (DEIB) Seminar
20. Professional Development and DEIB Seminar: “*Writing Diversity Statements - talk and panel discussion*” **Fall 2022**
21. ASU Teaching Experience Conversation Series: “*Teaching Experience: online and in person*” (ASU) **Fall 2021**
- showcase faculty exploring new approaches to engaging learners
22. Professional Development Seminar for Graduate students (SoMSS, ASU) **Spring 2021**
“*Teaching math around the world : Russia, Ukraine, Hungary, China and US Experiences as an international instructor*”
23. Graduate Teaching Assistant Training: “*Teaching and Diversity in classrooms*” (SoMSS, ASU) **Fall 2021**
24. Professional Development Seminar, Panel: “*Teaching and community colleges*” (SoMSS, ASU) **Spring 2021**
25. Professional Development Seminar: “*Teaching profession and practices*” (SoMSS, ASU) **Fall 2020**
26. First Year Mathematics Seminar, (SoMSS, ASU) **2019**
“*How to stop giving back hard copies of exams/quizzes and create a digital database for students*”
27. First Year Mathematics Seminar (SoMSS, ASU): “*GradeScope and other scanning grading tools*” **2019**
28. Tutor Center Workshops, ASU: “*how to tutor MAT265-MAT266 classes*”, (SoMSS, ASU) **2019**

EDUCATIONAL VIDEOS & MATERIALS for ASU

1. Academic Support Network: Project “Tutorbot for MAT265” – worked as a Faculty Expert, edited/wrote notes (75 hrs) **2024**
2. EdPlus “**MathSpine Project**” - **95 videos** for MAT 265 and integration into Edfinity **Summer 2024**
3. EdPlus: [videos](#) and Power Points for MAT 210, MAT 265 courses, Math Spine Project **2018, 2020, 2021**
4. ASU Open Doors video “*Math can save the world*”: <https://opendoor.asu.edu/math-can-save-world-4463>
5. Education Video for SoMSS: Teaching during COVID - ***Julia Inozemtseva - Calculus I, II, III***
6. YouTube Channel: “MathSlopes with Julia”: <https://www.youtube.com/c/MathSlopeswithJulia> **560+ videos, 2020-current**

DESIGNING & TEACHING SPECIAL COURSES:

1. (OLLI) Osher Lifelong Learning Institute at ASU: 10 hours total

- 1) “*International education: life of international students and faculty in the US*” **Spring 2025**
- 2) “*Internation Collaboration with American University Kyiv (AUK): technology and innovation*” **Spring 2025**
- 3) “*The Magic of Math: Global Applications in the 21st century*” **Fall 2024**

2. MAT 491-493: Honors Thesis Defense

2019, 2020, 2022, 2023, 2024

3. LIA 194: Special course

Fall 2020 and Spring 2023

Topic: DiscSem: Math will save the world: medicine, AI and more.

I have invited 10+ STEM speakers from NASA, Data Science and Neuroscience, as well as graduate students.

Description: Discover the beauty of mathematics in nature, biology, medicine, AI, computer science, engineering and epidemics spread. No matter which subject is your favorite, we will show you how math is changing it in 21st century: from music, medicine to machine learning. Come and blow your mind away during each class.

TEACHING SPECIAL COURSES:

1. Data Science and Society (DAT 250):

Fall 2024 – Spring 2025

Through class discussions and case studies, students learn the basics of ethical thinking in science, understand the history of ethical dilemmas in scientific work, and study the distinct challenges associated with ethics in modern data science

2. Precalculus: [JBMSHP](#) - Joaquin Bustoz Math-Science Honors Program

Summer 2021

Successfully taught & mentored underrepresented freshmen students by fostering a supportive learning environment and promoting inclusivity in STEM. My goal was to help students to thrive in a university setting and their future careers

3. Brief Calculus: Earned Admission (Global Freshman Academy)

Spring 2020

I was chosen to use a different book (Calculus: 3d addition, by Briggs, William (Cochran/Gillett)) and program for Calculus I and II, which required creation of my own schedule, homework and even prices negotiation for my students.

PROFESSIONAL GROWTH: EDUCATIONAL & DIVERSITY WORKSHOPS/COURSES

1. Workshop: “*An Intersectional Approach to Addressing Harassment in the Mathematical Sciences*” (in person 8 hrs!) 2022
(AWM) Association for Women in Mathematics Research Symposium, University of Minnesota, Minnesota
2. Workshop: Provost's Faculty and Academic Professional Search (2 hrs) 2024
3. Workshop: “*Data Science Education: What is it? How does it enable diversity?*” (1 hr) 2024
(AWSiM) Arizona Women's Symposium in Mathematics at NAU, AZ
4. *Attended majority of meetings, workshops and trainings* by the AWM chapter at SoMSS, ASU 2017-current
5. Workshop: The College’s Fall 2023 Career-Track Faculty Promotion, ASU (1.5 hrs long) 2023
6. Workshop: “*Diversity in Graduate Mathematical Sciences*” by paraDIGMS and AWS, DEIB Conference (5 hrs) 2022
7. Workshop: “*Equity in Graduate Admissions*” by IGEN (4 hrs) 2022
8. Workshop: “*Tackling Implicit Bias and Microaggressions*” (1.5 hrs) 2022
9. Workshop: “*Teaching and Equity in the Classroom: Humanizing the Learning and Keeping the Invisible in Mind* (1 hr) 2022
AWSiM at Embry-Riddle Aeronautical University, AZ
10. Workshop: Diversity, Equity, Inclusion and Belonging (DEIB) by Kelly MacArthur at AWSiM (1 hr) 2022
“*Rehumanizing College Mathematics: Centering the Voices of Latin, Indigenous, LGBTQ+, and Women STEM Majors*”
11. Virtual Talks/Discussions: “*We Speak: Inspiring Women in Math Speaker Series*” by AWM – 11 talks (11 hrs) 2021
12. **Course:** “*Certified Association of College and University Educators, ACUE*” (50+hours) 2020-2021
- Course in Effective Teaching with certification by the Provost Teaching Academy:
- **25 modules, 180 instructional videos and weekly homework:** <http://acue.org/programs/catalog/>
13. Workshop: “*Active learning for in-person and online courses*”, MLF Teachers College (2 hrs) 2021
14. Workshop: “*Promotion for NTE Faculty: Strategies & Considerations*”, ASU (1.5 hrs) 2021
15. Workshop: “*A Workshop on Uncovering Historical Departmental Data on Underrepresented Students*”, AMS 2021
16. Conference: “*Antiracist Teaching, Language, and Assessment*”, Oregon State University 2021
17. Workshops: “*Academic personnel search workshops*”, ASU 2021
18. Workshops: “*Identifying and Disrupting Microaggressions*”, ASU 2021
19. Workshop: “*Dismantling Systemic Racism in Higher Education: An Unfinished Project*”, ASU 2021
20. Conference: “*Annual Prison Education Conference*”, ASU 2021
21. Colloquium/workshop: Matthew Voigt from Clemson University, hosted by SoMSS 2021
“*Let’s Have a Kiki: An Open Discussion about the Experiences of Queer-Spectrum STEM Students*”
22. Seminar: Data science seminar 2021
23. DEIB Educational Conference, Virtual: “*Evidence In Motion*” 2021
24. Training: Advising for ASU Club 2020, 2021
25. Workshop: “*Uncovering Historical Departmental Data on Underrepresented Students*” 2020
26. Workshop: “*Inclusivity - Lessons Learned*”, Summer Workshop for Achieving Greater Graduate Educational Readiness 2020
27. Workshop: “*RISE UP: Frameworks for evaluating inclusive course design*” 2020
28. Seminar: “*The Danger of Silence*” – indigenous and black people talking about slavery 2020
by the Amplified Voices Graduate Student Steering Team

MENTORING & OTHER SERVICE

1. Undegraduate Club “STEMathematics”– ADVISOR 2024-current
2. Coordinator of MAT 266 (Calculus for Engineers II): 25-30 large sections (1400+ students) per year: 2019-current
mentoring 10+ grad students and 15-20 Instructors every year
3. Mentored Honors students: honors enrichment projects – total 30 2018-2024
4. Wrote MANY recommendation letters for undergraduate (55) and graduate students (5), colleagues (6) 2017-2024
5. Actively mentored Teaching Assistant Professors, Instructors, Grad Students and Post Doctoral Associates 2018-2024
6. Co-coordinated large sections of MAT 265 courses, near 1800 students per year 2018-2019
7. Undegrad Math Club – ADVISOR 2021-2022

~ Teaching Observations & Evaluations (SoMSS):

Teaching Professors & Instructors, Graduate Students, Post Doctoral Associates: 2024 (3), 2023 (6), 2022 (5), 2021 (7)

~ Mentoring Faculty and Graduate Students:

- Since 2018, I actively mentor and support newly hired Assistant Teaching Professor, Instructors and Post Doctoral Associates:
- teaching how to use classrooms equipment, Canvas, Webwork, Pearson, giving campus tours, offices tours, replying to Q/A;
 - *community building*: organized picnics in the park with reserved rotunda, walks in the park, yoga in the park, badminton;
 - *trips*: Organized trip to Sedona, Grand Canyon, Flagstaff, Tonto National Forest, Canyon Lake;
 - *educations*: organizing ZOOM meetings, numerous teaching observations, teaching feedback, handling Q/A from students;
 - *helping hand*: provided place to live at my house while newly hired faculty were looking for the place to rent.
Provided numerous grocery shopping, airport and doctor' office rides, as well as rides to work and to conferences.

~ Faculty and students mentored, each for several years: 2024 (6), 2023 (7), 2022 (8), 2021 (10), 2020 (4)

- Teaching Assistant Professors: D. Polletta (2021-2022), R. Frier (2024), X. Gong (2020-2023), B. Kasmaie (2021-2024), S. Mahzabeen (2020-2021), P. Tabrizian (2020-2021);
- Post Doctoral Associate: H. Vo (2022-2024);
- Graduate students: P. Doi (2022-2024), D. Polletta (2020-2021), S. Brooker (2021-2022);
- Undergraduate Students: O. Avashi & K. Ranjan (2023-2024), C. Moran (2020-2023), S. Sadak (2021-2022), I. Marrero (2021)

MY MATH YOUTUBE VIDEOS: 2024 (90 new videos), 2023 (70), 2022 (100) 560+ videos, 2020-current

My YouTube Channel: "MathSlopes with Julia": <https://www.youtube.com/c/MathSlopeswithJulia>

- I record every single lecture for all my classes
- I conduct and record 2-3 hours long exam reviews for each of my classes (in person and online) and for each exam;
- Number of Videos: for Calculus for Engineers I (190+ videos), II (143+ videos), III (170+ videos), Calculus for Life Sciences (45 videos), Business Calculus (17 videos), Precalculus (6 videos), College Algebra (37 videos);
- Additionally, I've created my own handouts and 300+ pages of exam reviews and study guides;

VOLUNTEERING

2017-current

(I volunteer consistently since 2017. My passion for volunteering has kept me from missing any events, except in cases when I was traveling or unwell)

- Met AUK students, faculty and the dean during their first ASU visit from Ukraine **Spring, 2024**
- I gave campus & library tours, rides to the Grand Canyon and Sedona, attended official lunch/dinner meetings and ceremonies. I helped to build a significant connection between AUK and SoMSS.
- AWSIM (Arizona Women's Symposium in Mathematics) **2022, 2023, 2024**
- Organization, food supply, recruiting, carpooling
- "Welcome to ASU": Virtual Tours Presentation – to promote ASU during hiring processes: **35+ hours in 2022-2024**
- Open Doors, SoMSS
- Homecoming Block Party, SoMSS
- Fall Welcome event: greet first year undergrad students – as Teaching Faculty & Applied Math representative, SoMSS
- Graduate Students Fair: represented Applied Mathematics, SoMSS
- AWM meetings and organization – when help is needed, SoMSS
- ICMA VII 2019 - volunteered at International Conferences on Mathematical Modeling, SoMSS, ASU

UNIVERSITY OF UTAH

Graduate Instructor / Research Assistant, University of Utah

2014-2017

I took a Graduate Level Math Education course “**Research in Teaching**” and attended many educational workshops.

I also collected and used over 50 animations and videos to visualize the material in each course.

MATH EDUCATION COURSES AND WORKSHOPS

| COURSES & SEMINARS | WORKSHOPS |
|---|---|
| <i>Department of Education, Culture and Science</i> Spring 2017 • Grad Level Course: “Research in Teaching” 3 credit | • Gender & Sexuality, 2 parts (3 hours) Spring 2017 • Implicit Bias in Teaching Spring 2017 |
| <i>Center for Science and Math Education</i> 2016-2017 Lecture Series: “STEM: educational methodology” | • Gendered Language Spring 2017 • Understanding Discrimination Policies Fall 2016 • Communication Skills Fall 2015 |
| <i>Department of Mathematics</i> • Graduate Student Teaching Seminar Fall 2016, Spring 2017 | TEACHING PROJECTS Spring 2017 Pivot Research Project on Teaching: Metacognition Awareness Development |
| <i>Department of Mathematics</i> • Teaching Assistant and Lecturer training August 2014 | |

Summary: Taught numerous undergraduate math classes: lecturing, grading, curriculum creation, mentoring students. Independently maintained planning and execution of all courses. Created unique handouts, material reviews, helped students with math-phobia, actively supported women in STEM. Integrated math modeling in medicine, biology, physics & business problems into lectures. Created study-sessions: students (10-15) meet me weekly to work together on their homework, exam reviews etc. Conducted research in math modeling, applied for research grants, presented results in colloquium and seminars. *Was highly evaluated by students for using examples from biology and physics, stimulating independent thinking.*

- *Calculus 2* **Spring, 2017**
 - Integrated flipped-classroom techniques, such as: videos, discussions, and group work.
 - Developed metacognition developing awareness project: students take surveys on progress on studying for quizzes and tests, predict their grades, try new learning strategies
- *Calculus 1* **Fall, 2016**
 - Integrated recent scientific findings from biology and physics into lectures: the Harvard Medical School video of the evolution and spread of bacteria and other topics
- Business Calculus **Summer, Spring, 2016**
- Quantitative Reasoning **Fall, 2015**
- Business Algebra **Spring, 2015 and Fall, 2014**

GEORGIA SOUTHERN UNIVERSITY

Teaching assistant / Tutor, Researcher, Georgia Southern University

2012-2014

Teaching weekly recitations, creating unique materials, grading, exam reviews and proctoring in undergraduate mathematics courses, as well as tutoring undergraduate mathematics courses, mentoring students, preparing students for quizzes and exams.

- Calculus I, II **Fall 2013, Spring 2014**
 - College Algebra (Assisted with hybrid class: over 150 students) **Spring, 2013**
 - Tutoring responsibilities at the Math Tutoring Center: **2012-2014**
- Preparing students for quizzes and exams, creating unique materials, introducing modern teaching techniques, leading tutoring groups, proctoring exams, innovating Math Tutoring Center.

HUNGARY AND UKRAINE

Lecturer / Research Assistant, Odessa National University (ONU), Ukraine

2010 –2012

- *Differential Equations course*
- *Research in Differential Equations*

Teaching a math undergraduate course in differential equations, creating new teaching materials, mentoring students, assisting with teaching and research. Conducting research during the international exchange program, presenting results at the seminar.

CERTIFICATES & PEDAGOGIC TRAININGS, ONU, Ukraine

| CERTIFIED PEDAGOGIC TRAININGS | |
|---|------------------|
| Certification in Teaching Mathematics (University level) | |
| • Master Degree, Odessa National University | 2011 |
| - Teaching a course in Differential Equations | 8 weeks |
| Certification in Teaching Mathematics (K-12 level) | |
| • Bachelor Degree, Richelieu Lyceum | 2010 |
| - Teaching 9ths grade students | 6 months |
| - Educational-computing practice | 5 months |
| EDUCATIONAL PROJECTS | 2010-2011 |
| • Active learning in high school and college | |
| • Psychological profile analysis of a students | |

| COURSES: 2006-2012 | |
|---|------------------|
| Department of Mathematical Education Methodology | |
| • Methods of teaching mathematics | 297 hours |
| • Methods of teaching computer science | 324 hours |
| • Pedagogy | 108 hours |
| • Psychology | 108 hours |
| • Sociology | 54 hours |
| • Selected issues of elementary mathematics | 108 hours |
| • Teaching using modern information technology | 54 hours |
| • Mathematical logic in teaching | 54 hours |
| • Ethics in teaching | 36 hours |

K-12: Math Teacher, Richelieu Lyceum, Ukraine

- 9th grade math teacher in the math-oriented Lyceum

Fall, 2009

Certification Teaching Program: teaching 9th grade math courses (Science Oriented Classes), creating new teaching materials, conducting extracurricular activities, class projects, mentoring students, creating a course plan, lectures, tests, graded assignments. Wrote student's psychological profile. Co-organized class trips, events and excursions.

Professors' committee rated my work as Excellent (5 out of 5 point scale) and provided great recommendations

INTERNATIONAL TEACHING ASSISTANT

International Exchange Program: University of Szeged (Hungary) and Odessa National University (Ukraine)

- (ESL) English as a Second Language
- (RSL) Russian as a Second Language

Fall, 2011

Summer, 2012

Helped with class organization, led group discussions, suggested topics and materials, organized excursions and events.

RESEARCH TALKS DELIVERED

- | | |
|---|------------------|
| 1. Undergraduate Math Colloquium, University of Utah | 2017 |
| 2. Scientific Journal Club, University of Utah | 2014-2016 |
| 3. International Conference on Dynamics of Differential Equations, Georgia Tech, GA | 2013 |
| 4. Conference on Graduate Research in Mathematics, GSU, GA | 2013 |
| 5. Graduate Research Symposium, GSU, GA | 2013 |
| 6. 32rd Southeastern-Atlantic Regional Conference on Differential Equations, Wake Forest University, NC | 2012 |
| 7. Mathematical Colloquium for Graduate Students and Professors, GSU | 2012 |
| 8. Conference on Graduate Research in mathematics, GSU, GA | 2012 |

RESEARCH IN MATHEMATICS AND EDUCATION

- | | |
|--|--------------------|
| 1. "Metacognition Awareness Development", Math Education, with Dr. Selling, University of Utah, UT | 2017 |
| 2. "Epidemics modeling and hospitals network analysis", work with Dr. Adler, sLaM , University of Utah, UT | 2015-2017 |
| 3. "Modeling MRSA and CDiff spread in hospitals" - Veterans Affairs | Summer 2015 |
| - Internship: research with Dr. Samore - the Chief of the Division of Epidemiology and the Director of the Informatics, Decision Enhancement, and Analytic Sciences (IDEAS) Center at the Veterans Affairs in SLC, UT | |
| 4. M.S. Thesis: "Emphasis in mathematical modeling of gene mutation in predator-prey model" | 2014 |
| - with Dr. J. Braselton, Georgia Southern University, GA | |
| 5. M.S. Thesis: "Generalized periodic solutions of systems with slowly-varying parameters" | 2012 |
| - with Dr. A. Shogolev, ONU, Ukraine | |
| 6. The psychological profile analysis of a student and a group of students, ONU, Ukraine | 2010-2011 |
| 7. Research International Exchange Program, University of Szeged, Hungary | 2011 |
| 8. B.S. Thesis: "Poincare small parameter method for systems with slowly varying parameters" | 2010 |
| 9. Undergraduate Research Project: "The algorithms of search in oriented graphs", ONU, Ukraine | 2008 |

PUBLICATIONS

- Inozemtseva Iuliia, "Life of International Graduate Students within the Department of Mathematics", newsletter **2017**
- Inozemtseva Iuliia, Dr. J. Braselton: "Epistasis in Predator-Prey Relationships", *Open Journal of Applied Sciences*, 4: 473-491 **2014**
- Inozemtseva Iuliia, Dr. J. Braselton: "Mathematical modeling of gene mutation in predator-prey model", draft **2013**
- Inozemtseva Iuliia, Dr. A. Shogolev: "Generalized periodic solutions of linear systems with slowly varying parameters" **2012**

RELEVANT EXPERIENCE in UKRAINE

- Undergraduate Assistant, Odessa National University Botanical Garden, Ukraine **August, 2006**
- Assisted with organization, planting, translating biological terminology
- Russian-English Translator/Teacher, Or Sameah (Tikva) International Summer Camp **Summer of 2005, 2006**
- Summer Camp Assistance: with supervisors from Israel and England **2007, 2008, 2009**
worked as a translator during all the events, excursions, trips, taught foster kids, assisted with organization

RELEVANT EXPERIENCE AND VOLUNTEERING

University of Utah

- Gave a talk to promote Math Modeling at the Undergraduate Math Colloquium **Spring, 2017**
- Assisted for Science Fairs: promoted science to the high school students using interactive activities **2015-2016**
- Participated in seminars and classes on curriculum development **2014-2016**
- Brought international experience to the Center for Science and Math Education Exchange workshops **2016-2017**
- Lead the international teaching experience panel for the annual TA training **Summer, 2016**

Georgia Southern University

- **Global Ambassador Program** **2012-2014**
 - Presented for Georgia colleges and high-schools, promoted Russian and Ukrainian culture
 - Promoted women in STEM
 - Participated in the international panels, presenting international experience in various fields: education, language, economy, business, traditions
 - Volunteered during the International Festivals: "Mathematics is fun" for kids, writing in different languages
- **Cross-Cultural Friendships Program** **2012-2014**
 - Students collaboration, languages and math representative, assisting in students class projects, planned and organized cross-cultural events and trips
- **International Extended Families Program** **2012-2014**
 - Collaborated with American families, teaching different languages, shared experience

SKILLS AND INTERESTS

- Professional with Iclicker, Slido, iMathAS, MyMathLab, WebAssign, WebWork, Edfinity, Socrative, GradeScope, CampusWire, EdDiscussion, BlackBoard, Canvas, ALEKS
- Mathematical Biology, Mathematical Applications in Medicine, Machine Learning, Epidemiology
- Promoting support for underrepresented groups in STEM:
ESL (English as Second language) students, international students, women, immigrant students and faculty
- Public speaking, volunteering, community services
- Leading group discussions and team projects
- Work with MAPLE, Mathematica, LaTeX, MATLAB, R, MS Office, Excel

AFFILIATIONS

- [Melikian Center](#), Affiliate: Mentoring, grant application (with David P. Brokaw, Program Coord) **2022-current**
- Collaborator with [American University Kyiv](#), AUK, Ukraine **2022-current**
- [Association for Women in Mathematics](#) (AWM), SoMSS, ASU **2017-current**
- Association for Women in Science (AWS)

COUNTRY OF ORIGIN: Ukraine, Odessa

LANGUAGES: Fluent & Professional in Russian, Ukrainian, English

LIST OF COURSES TAUGHT for ASU

Summary: At the Arizona State University, I have created unique handouts (300+pages) and educational materials, helped students with math-phobia, actively promoted science and women in STEM. Used online discussion boards to encourage students to bring up new ideas and help each other. Integrated math modeling in Biology, Physics, Space Science, Machine Learning into lectures and group activities.

I have taught a wide range of courses:

DAT 250 - Data Science and Society (in person & online), MAT 117 - College Algebra (in person & online), MAT 142 - College Math (in person), MAT 170 - Precalculus (Pathways model, in person), MAT 210 - Brief Calculus (in person & online), MAT 211 - Math for Business Analysis (in person & online), MAT 251 - Calculus for Life Sciences (in person), MAT 265-266-267 - Calculus for Engineers I-II-III (all in person & online).

DISTINCTIVE COURSES TO HIGHLIGHT:

1. **Designed my own courses for the Osher Lifelong Learning Institute (OLLI) at ASU: 9 hours total**
 - 1) *“International education: life of international students and faculty in the US”* **Spring 2025**
 - 2) *“The Magic of Math: Global Applications in the 21st century”* **Fall 2024**
2. New course, discussion driven (no math and coding): DAT 250: Data Science and Society **2024, 2025**
3. *I was chosen to teach my own class: LIA 194: Special course, my own design.* **2020, 2023**
Topic: DiscSem: Math will save the world: medicine, AI and more.
4. I was honored to be chosen to teach Precalculus: JBMSHP - Joaquin Bustoz Math-Science Honors Program in Summer 2021. I successfully mentored students in this class. Some of them joined ASU in Fall 2021.
5. I was also chosen to teach Brief Calculus: Earned Admission (Global Freshman Academy).
6. I was chosen to use a different book and program for Calculus for Engineers I and II, which required creation of my own schedule, HW assignments and even prices negotiation for the access code.

Fall 2024

| | |
|--|--------------------|
| DAT 250: Data Science and Society | 60 students |
| DAT 250: Data Science and Society (online) | 80 students |
| MAT 266: Calculus for Engineers II (online) (three classes) | 375 students |
| MAT 492: Honors Directed Study (as Second Reader) “Global Citizen”, Melikian center | 3 students |

Summer 2024

| | |
|---|--------------|
| MAT 267: Calculus for Engineers II (online) (two classes) | 230 students |
|---|--------------|

Spring 2024

| | |
|---|--------------|
| MAT 266: Calculus for Engineers II (two classes) | 164 students |
| MAT 266: Calculus for Engineers II (online) (two classes) | 260 students |

Fall 2023

| | |
|---|------------------|
| MAT 265: Calculus for Engineers I | 100 students |
| MAT 265: Calculus for Engineers I (online) | 126 students |
| MAT 266: Calculus for Engineers II (three classes) | 375 students |
| MAT 493: <u>Honors Directed Thesis Defense</u> - Eric Ren on September 19, 2023 (as Research Director) | 1 student |

Summer 2023

| | |
|--|------------------|
| MAT 267: Calculus for Engineers III (online) | 200 students |
| MAT 492: Honors Directed Study with Eric Ren (as Research Director) | 1 student |

Spring 2023

| | |
|--|--------------|
| MAT 267: Calculus for Engineers III (online) | 125 students |
|--|--------------|

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|--|--------------------|
| MAT 266: Calculus for Engineers II (online) | 125 students |
| MAT 265: Calculus for Engineers I (two classes) | 250 students |
| MAT 267: Calculus for Engineers III | 87 students |
| LIA 194: Special course, my own design: "Discovery Seminar: Math is everywhere! STEM, culture and more" | 25 students |
| MAT 492: Honors Directed Study with Eric Ren (as Research Director) | 1 student |
| MAT 493: Honors Directed Thesis Defense - Sofia Blavatsky on April 27, 2023 (committee member, research mentor) | 1 student |

Fall 2022

| | |
|---|-------------------|
| MAT 266: Calculus for Engineers II (two classes) | 215 students |
| MAT 267: Calculus for Engineers III (online) (two classes) | 225 students |
| MAT 492: Honors Directed Study with Eric Ren (as Research Director) | 1 student |
| MAT 492: Honors Directed Study with Sofia Blavatsky (as a committee member, research mentor) | 1 students |

Summer 2022

| | |
|--|------------------|
| MAT 266: Calculus for Engineers II (online) | 100 students |
| MAT 267: Calculus for Engineers III (online) | 100 students |
| MAT 492: Honors Directed Study with Eric Ren (as Research Director) | 1 student |

Spring 2022

| | |
|--|------------------|
| MAT 210: Brief Calculus (two classes) | 250 students |
| MAT 266: Calculus for Engineers II | 80 students |
| MAT 267: Calculus for Engineers III (two classes) | 170 students |
| MAT 492: Honors Directed Study with Eric Ren (as Research Director) | 1 student |

Fall 2021

| | |
|---------------------------------------|--------------|
| MAT 210: Brief Calculus (two classes) | 250 students |
| MAT 267: Calculus for Engineers III | 100 students |
| MAT 251: Calculus for Life Sciences | 80 students |

Summer, 2021

| | |
|---|--------------|
| MAT 211: Math for business Analysis | 100 students |
| MAT 170: Precalculus: JBMSHP - Joaquin Bustoz Math-Science Honors Program | 30 students |

Spring 2021

| | |
|--|--------------|
| MAT 266: Calculus for Engineers II | 80 students |
| MAT 265: Calculus for Engineers I online (two classes) | 160 students |

Fall, 2020

| | |
|---|--------------------|
| MAT 117: College Algebra (two classes) | 280 students |
| MAT 210: Brief Calculus | 150 students |
| MAT 265: Calculus for Engineers I | 110 students |
| MAT 266: Calculus for Engineers II | 90 students |
| LIA 194: Special course, my own design: "Discovery Seminar: Math will save the world: medicine, AI and more" | 25 students |

Summer, 2020

| | |
|--|------------------|
| MAT493: Honors Directed Thesis Defense - Emma Saarinen on August 7, 2020 (as Research Director) | 1 student |
| MAT 211: Math for Business Analysis (two classes) | 190 students |

Spring, 2020

| | |
|---|------------------|
| MAT 492: Honors Directed Study with Emma Saarinen (as Research Director) | 1 student |
| MAT 265: Calculus for Engineers I (two classes) | 200 students |

| | |
|---|--------------|
| MAT 266: Calculus for Engineers II | 80 students |
| MAT 210: Brief Calculus: Earned Admission (Global Freshman Academy) | 100 students |
| MAT 265: Calculus for Engineers I: Earned Admission (Global Freshman Academy) | 100 students |

Fall, 2019

| | |
|---|------------------|
| MAT 492: Honors Directed Study with Emma Saarinen (as Research Director) | 1 student |
| MAT 266: Calculus for Engineers II | 80 students |
| MAT 267: Calculus for Engineers III | 100 students |
| MAT 142: College Mathematics | 110 students |
| MAT 265: Calculus for Engineers II online | 100 students |
| MAT 267: Calculus for Engineers III online | 80 students |

Summer, 2019

| | |
|--|-------------|
| MAT 211: Math for Business Analysis online | 75 students |
| MAT 211: Math for Business Analysis online | 80 students |

Spring, 2019

| | |
|---|--------------|
| MAT 266: Calculus for Engineers II | 75 students |
| MAT 266: Calculus for Engineers II | 66 students |
| MAT 265: Calculus for Engineers I online | 80 students |
| MAT 266: Calculus for Engineers II online | 100 students |
| MAT 170: Precalculus online | 100 students |
| MAT 492 : Honors Directed Study with Emma Saarinen (as Research Director) | 1 student |

Fall, 2018

| | |
|---|--------------|
| MAT 265: Calculus for Engineers I | 82 students |
| MAT 265: Calculus for Engineers I | 101 students |
| MAT 211: Math for Business Analysis (icourse) | 100 students |
| MAT 210: Brief Calculus (icourse) | 120 students |

Summer, 2018

| | |
|---|--------------|
| MAT 211: Math for Business Analysis (icourse) | 75 students |
| MAT 211: Math for Business Analysis (icourse) | 100 students |

Spring, 2018

| | |
|---|-------------|
| MAT 210: Brief Calculus (icourse) | 80 students |
| MAT 211: Math for Business Analysis | 88 students |
| MAT 211: Math for Business Analysis | 88 students |
| MAT 211: Math for Business Analysis (icourse) | 65 students |

Fall, 2017

| | |
|------------------------------|--------------|
| MAT 142: College Mathematics | 100 students |
| MAT 142: College Mathematics | 101 students |
| MAT 170: Precalculus | 110 students |
| MAT 170: Precalculus | 110 students |