

## 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>

## EDUCATION

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

## PROFESSIONAL APPOINTMENTS

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

## INTERNATIONAL COLLABORATION

**with Prof. Dr. Oleksandra Antoniuk, [American University Kyiv \(AUK\)](#), Ukraine** **2022-2023**  
**300+ hours**

### Designing courses for the Bachelor Program in Software Engineering, AUK

- Created math courses for the newly established world-class university in Kyiv, Ukraine, powered by ASU;
- Created and set up every single homework, exam and quiz for Calculus I, Calculus II, Calculus III;
- Created an international collaboration between SoMSS (ASU) and AUK;
- Reported to SoMSS faculty and admin on 09/21/2023: <https://math.asu.edu/collaboration-kyiv>

## RESEARCH WITH UNDEGRADUATE STUDENTS (COMPLETED):

1. **Honors Thesis Defense - Emma Saarinen on August 7, 2020 (as Research Director)** 2019-2020  
Graph Theory, coding, languages: [Translation, Analysis, and Application of a Russian-Language Graph Theory Paper](#)
2. **Honors Thesis Defense - Eric Ren on September 19, 2023 (as Research Director)** 2021-2023  
Additions and Improvements to College Algebra Educational Materials
3. **Honors Thesis Defense - Sofia Blavatsky on April 27, 2023 (committee member, research mentor)** 2022-2023  
Data Analysis and Journalism: [Misinformation on the Russian-Ukrainian War: A Case Study](#)

## HONORS AND AWARDS

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

## ACADEMIC TALKS & WORKSHOPS DELIVERED

1. **Collaboration with American University Kyiv (AUK), (SoMSS, ASU)** Fall 2023  
<https://math.asu.edu/collaboration-kyiv>
2. **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*"
3. Early Start Program: "*Math will save the world*", (SoMSS, ASU) Summer 2023
4. Early Start Program: "*Amazing Applications of math in the real world*", (SoMSS, ASU) Summer 2022
5. **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
6. **AWSiM 2022, workshop with Rhonda Olson, Chair of the DEIB committee (ASU):** Fall, 2022  
"*To speak or not? A Bystanders Dilemma*"
7. 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*"
8. Paul Vaz Undergraduate Mathematics Seminar (PVUMS): "*Having Fun While Teaching Calculus*" Fall, 2022
9. Professional Development Seminar for Graduate students: "*Writing Teaching Statements*" Fall, 2022  
- together with Diversity, Equity, Inclusion and Belonging (DEIB) Seminar
10. Professional Development and DEIB Seminar: "*Writing Diversity Statements - talk and panel discussion*" Fall, 2022

11. ASU Teaching Experience Conversation Series: “*Teaching Experience: online and in person*“ (ASU) **Fall 2021**  
- showcase faculty exploring new approaches to engaging learners
12. 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*”
13. Graduate Teaching Assistant Training: “*Teaching and Diversity in classrooms*” (SoMSS, ASU) **Fall 2021**
14. Professional Development Seminar, Panel: “*Teaching and community colleges*” (SoMSS, ASU) **Spring 2021**
15. Professional Development Seminar: “*Teaching profession and practices*” (SoMSS, ASU) **Fall 2020**
16. First Year Mathematics Seminar, (SoMSS, ASU) **2019**  
“*How to stop giving back hard copies of exams/quizzes and create a digital database for students*”
17. First Year Mathematics Seminar (SoMSS, ASU): “*GradeScope and other scanning grading tools*” **2019**
18. Tutor Center Workshops, ASU: “*how to tutor MAT265-MAT266 classes*”, (SoMSS, ASU) **2019**

## RESEARCH TALKS DELIVERED

19. Undergraduate Math Colloquium, University of Utah **2017**
20. Scientific Journal Club, University of Utah **2014-2016**
21. International Conference on Dynamics of Differential Equations, Georgia Tech, GA **2013**
22. Conference on Graduate Research in Mathematics, GSU, GA **2013**
23. Graduate Research Symposium, GSU, GA **2013**
24. 32rd Southeastern-Atlantic Regional Conference on Differential Equations, Wake Forest University, NC **2012**
25. Mathematical Colloquium for Graduate Students and Professors, GSU **2012**
26. Conference on Graduate Research in mathematics, GSU, GA **2012**

## HONORS RESEARCH PROJECTS

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

1. Mathematical Modeling of Epidemics Spread:  
- The Black Death, Malaria, Ebola in Africa, Ebola in China, Anthrax, Neisseria Gonorrhoeae, Influenza, Dengue Disease;
2. Education in Prison, community outreach;
3. Artificial Intelligence, face recognition, Machine Learning & Backpropagation, image recognition, writing recognition;
4. Cancer, tumor research, neuroscience

## COMMITTEES SERVED

1. **Graduate Teaching Assistant Training** committee **Summer, 2023**
2. **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**
3. Teaching Faculty Mentoring Committee (ongoing) **2020-2023**
4. Teaching Assistant Professor Hiring Committee **2022-2023**
5. Lecturer Hiring Committee **2019-2020-2021**
6. Instructor Hiring Committee **Summer 2021**
7. Title VI grant application, Department of Education (with David P. Brokaw, MA, MBA, Program Coordinator) **2022**  
The Melikian Center for Russian, Eurasian, and East European Studies
8. EdPlus Hiring Committee: Online Math Academic Success and Retention Specialist **2020**
9. Developing Power Points and Videos for EdPlus Committee: MAT 117, MAT 210, MAT 265 **2018, 2021**

## MENTORING & SERVICE

1. Coordinator of MAT 266 (Calculus for Engineers II): (ongoing) 2019-2023  
25-30 large sections (1400+ students) per year: mentoring 10+ grad students and 15-20 Instructors every year
2. Math Club – ADVISOR **2021-2022**
3. **Director: Honor Thesis (completed) – Eric Ren** **2021-2023**
4. **Mentor: Honor Thesis (completed) – Sofia Blavatsky** **2022-2023**
5. **Director: Honor Thesis (completed) – Emma Saarinen** **2019-2020**
6. Mentored honors students in their honors enrichment projects – **total 21** **2018-2023**
7. Wrote MANY recommendation letters for undergraduate (**43**) and graduate students (**3**), colleagues (**5**) **2017-2023**
8. Co-coordinated large sections of MAT 265 courses, near **1800** students per year **2018-2019**
9. Actively mentored Teaching Assistant Professors, Instructors, Grad Students and Post Doctoral Associates **2018-2023**

## Teaching Observation & Evaluation:

Colleagues (Teaching Professors & Instructors), Graduate Students, and Post Doctoral Associates: **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's office rides, as well as rides to work and to conferences.

## Faculty and students mentored, each for several years:

- Teaching Assistant Professors: David Polletta (2021-2022), Ryan Frier (2023), Xiaoqian (Janie) Gong (2020-2023), Behshid Kasmaie (2021-2023), Sabiha Mahzabeen (2020-2021), Peyam Tabrizian (2020-2021);
- Post Doctoral Associate: Hanh Vo (2022-2023);
- Graduate students: Philip Doi (2022-2023), David Polletta (2020-2021), Samantha Brooker (2021-2022)
- Undergraduate Students: Moran-Esparza, Carlos (2020-2023), Sadak, Sagar (2021-2022), Marrero, Isabella (2021)

## PROFESSIONAL GROWTH: EDUCATIONAL AND DIVERSITY WORKSHOPS

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. *Attended majority of meetings, workshops and trainings* by the AWM chapter at SoMSS, ASU **(ongoing) 2017-2023**
3. Workshop: The College's Fall 2023 Career-Track Faculty Promotion, ASU **(1.5 hrs long) 2023**
4. Workshop: "*Diversity in Graduate Mathematical Sciences*" by paraDIGMS and AWS, DEIB Conference **(5 hrs) 2022**
5. Workshop: "*Equity in Graduate Admissions*" by IGEN **(4 hrs) 2022**
6. Workshop: "*Tackling Implicit Bias and Microaggressions*" **(1.5 hrs) 2022**
7. Workshop: "*Teaching and Equity in the Classroom: Humanizing the Learning and Keeping the Invisible in Mind* **(1 hr) 2022**  
(AWSiM) Arizona Women's Symposium in Mathematics at Embry-Riddle Aeronautical University, AZ
8. 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*"
9. Virtual Talks/Discussions: "*We Speak: Inspiring Women in Math Speaker Series*" by AWM – 11 talks **(11 hrs) 2021**
10. **Course: "Certified Association of College and University Educators, ACUE"** **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/>
11. Workshop: "*Active learning for in-person and online courses*", MLF Teachers College **(2 hrs) 2021**
12. Workshop: "*Promotion for NTE Faculty: Strategies & Considerations*", ASU **(1.5 hrs) 2021**
13. Workshop: "*A Workshop on Uncovering Historical Departmental Data on Underrepresented Students*", AMS **2021**
14. Conference: "*Antiracist Teaching, Language, and Assessment*", Oregon State University **2021**
15. Workshops: "*Academic personnel search workshops*", ASU **2021**
16. Workshops: "*Identifying and Disrupting Microaggressions*", ASU **2021**
17. Workshop: "*Dismantling Systemic Racism in Higher Education: An Unfinished Project*", ASU **2021**
18. Conference: "*Annual Prison Education Conference*", ASU **2021**
19. 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*"
20. Seminar: Data science seminar **2021**
21. DEIB Educational Conference, Virtual: "*Evidence In Motion*" **2021**
22. Training: Advising for ASU Club **2020, 2021**
23. Workshop: "*Uncovering Historical Departmental Data on Underrepresented Students*" **2020**
24. Workshop: "*Inclusivity - Lessons Learned*", Summer Workshop for Achieving Greater Graduate Educational Readiness **2020**



- 25. Workshop: “*RISE UP: Frameworks for evaluating inclusive course design*” 2020
- 26. Seminar: “*The Danger of Silence*” – indigenous and black people talking about slavery 2020  
by the Amplified Voices Graduate Student Steering Team

## RESEARCH IN MATHEMATICS AND EDUCATION

- “*Metacognition Awareness Development*”, Math Education, with Dr. Selling, University of Utah, UT 2017
- “*Epidemics modeling and hospitals network analysis*”, work with Dr. Adler, [sLaM](#), University of Utah, UT 2015-2017
- “*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
- M.S. Thesis: “*Emphasis in mathematical modeling of gene mutation in predator-prey model*” 2014  
with Dr. J. Braselton, Georgia Southern University, GA
- M.S. Thesis: “*Generalized periodic solutions of systems with slowly-varying parameters*” 2012  
with Dr. A. Shogolev, ONU, Ukraine
- The psychological profile analysis of a student and a group of students, ONU, Ukraine 2010-2011
- Research International Exchange Program, University of Szeged, Hungary 2011
- B.S. Thesis: “*Poincare small parameter method for systems with slowly varying parameters*” 2010  
with Dr. A. Shogolev, ONU, Ukraine
- Undergraduate Research Project: “*The algorithms of search in oriented graphs*”, ONU, Ukraine 2008

## PUBLICATIONS and VIDEOS

- Videos and Power Points for MAT 210/ MAT 265 Development - Fall and Spring semesters 2020-2021
- YouTube Channel: “MathSlopes with Julia”: <https://www.youtube.com/c/MathSlopeswithJulia> 470+ videos, 2020-current
- Videos for MAT 210/ MAT 265 Development, EdPlus - Spring, Summer and Fall semesters 2018
- Inozemtseva Iuliia, “Life of International Graduate Students within the Department of Mathematics”, newsletter 2017
- Inozemtseva Iuliia, Dr. J. Braselton: “Epistasis in Predator-Prey Relationships”, 2014  
*Open Journal of Applied Sciences*, 4: 473-491
- 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

## TEACHING AND MENTORING EXPERIENCE

## USA, HUNGARY, UKRAINE

### Arizona State University

Associate Teaching Professor (Lecturer Senior)  
Assistant Teaching Professor (Lecturer)

August 16, 2017 – current

2022-current

2017-2022

Summary: Research with undergrad students, course coordination, serving on MANY faculty committees, performed numerous peers and TAs evaluations. Volunteered on/off campus, community outreach. Organized a conference trip for undergraduate students in my classes, found funding for them. Recruited many students to STEM majors, mentored minority students and helped them to get scholarships.

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.

## TEACHING SPECIAL COURSES:

- **MAT 491-493: Honors Thesis Defense (three students)** 2019, 2020, 2022, 2023

- **Designed and taught LIA 194: Special course** Fall 2020 and Spring 2023

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

I have invited applied math 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.*

## • Precalculus: JBMSHP - Joaquin Bustoz Math-Science Honors Program

Summer 2021

I successfully mentored students in this class. Some of them joined ASU in Fall 2021.

## • 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, homeworks and even prices negotiation for my students.

Please see a detailed list of all classes at the end. I have taught a wide range of courses for freshman, sophomores, and juniors, on average 500 students each semester with a high success rate and high student evaluations:

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 - Calculus for Engineers I (in person & online), MAT 266 - Calculus for Engineers II (in person & online), MAT 267 - Calculus for Engineers III (in person & online)

## MY MATH YOUTUBE VIDEOS: 70 in 2023, 100 in 2022:

470+ videos, 2020-current

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

- I record every single lecture for all my in person classes: MAT 210, MAT 211, MAT 265, MAT 266, MAT 267
- 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 (140+ videos), II (47 videos), III (170+ videos), Calculus for Life Sciences (45 videos), Business Calculus (17 videos), Precalculus (6 videos), College Algebra (37 videos);
- Additionally to my videos, I've created my own handouts and 300+ pages of exam reviews and study guides;

## ASU EDUCATIONAL VIDEOS

1. [ASU videos](#) and Power Points for MAT 210, MAT 265 courses: EdPlus, Math Spine Project **2018, 2020, 2021**
2. ASU Open Doors video "Math can save the world": <https://opendoor.asu.edu/math-can-save-world-4463>
3. Education Video for SoMSS: Teaching during COVID - [Julia Inozemtseva - Calculus I, II, III](#)

## VOLUNTEERING

(ongoing) 2017-2023

(Annually. Because I enjoy volunteering so much, I didn't skip any event since 2017, unless I was traveling or sick)

1. "Welcome to ASU": Virtual Tours Presentation – to promote ASU during hiring processes: **35+ hours in 2022-2023**
2. Open Doors, SoMSS
3. Homecoming Block Party, SoMSS
4. Fall Welcome event: greet first year undergrad students – as Teaching Faculty & Applied Math representative, SoMSS
5. Graduate Students Fair: represented Applied Mathematics, SoMSS
6. AWM meetings and organization – when help is needed, SoMSS
7. ICMA VII 2019 - volunteered at International Conferences on Mathematical Modeling, SoMSS, ASU

## Graduate Instructor / Research Assistant, University of Utah

2014-2017

I took a Graduate Level Math Education course "Research in Teaching" and attended many workshops.

I also Collected and used over 50 animations and 10 videos to visualize the material in each of my courses:

<https://sites.google.com/a/georgiasouthern.edu/julia-inozemtseva/teaching-math-animations-and-pics>

## MATH EDUCATION COURSES AND WORKSHOPS

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

Summary: Teaching undergraduate classes in the mathematical sciences. Mentoring students, curriculum creation, lecturing and grading. Independently maintained planning and execution of each course. Created unique handouts, material reviews, helped students with math-phobia, actively promoted science and women in STEM. Integrated modeling in Biology, Physics and Business problems into lectures. Created study-sessions: students (usually 10-15) meet me weekly to work together on their homework, exam reviews etc. I also conducted research in mathematical modeling, applying for research grants, working at the research groups, working with presenting results in colloquium and seminars.

Was highly evaluated by students for using examples from biology and physics, stimulating independent thinking, hard work and for demonstrating an interest in students.

- *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**

### **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 II **Spring, 2014**
  - Calculus I **Fall, 2013**
  - 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, Ukraine** **2010 –2012**

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

Teaching an undergraduate course in mathematics (differential equations), introducing new topics and materials in mathematical education, mentoring students, assisting with teaching and research materials.

Research in differential equations, conducting research during international exchange problem, presenting results at the seminars,

### **CERTIFICATES & PEDAGOGIC TRAININGS, Odessa National University, Ukraine**

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

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

## **K-12: Math Teacher, Richelieu Lyceum, Ukraine**

- 9<sup>th</sup> grade math teacher in the math-oriented Lyceum

**Fall, 2009**

**Certification Teaching Program:** teaching ninth grade course in mathematics in Science Oriented Classes, preparing teaching materials, conducting extracurricular activities in mathematics and class projects, introducing new teaching techniques, mentoring students, creating new mathematical education materials, 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

**Fall, 2011**

- (RSL) Russian as a Second Language

**Summer, 2012**

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

## **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
- Assisted for Science Fairs: promoted science to the high school students using interactive activities
- Participated in seminars and classes on curriculum development
- Brought international experience to the Center for Science and Math Education Exchange workshops
- Lead the international teaching experience panel for the annual TA training

**Spring, 2017**

**2015-2016**

**2014-2016**

**2016-2017**

**Summer, 2016**

### **Georgia Southern University**

- **Global Ambassador Program**
  - 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**
  - Students collaboration, languages and math representative, assisting in students class projects, planned and organized cross-cultural events and trips
- **International Extended Families Program**
  - Collaborated with American families, teaching different languages, shared experience

**2012-2014**

**2012-2014**

**2012-2014**

## **SKILLS AND INTERESTS**

- Professional with iMathAS, MyMathLab, WebAssign, WebWork, Socrative, GradeScope, CampusWire, EdDiscussion, BlackBoard, Canvas, ALEX
- Mathematical Applications in Medicine, Machine Learning, Epidemiology
- Promoting support for underrepresented groups in STEM:  
ESL (English as Second language) students and 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



## AFFILIATIONS

- Collaborator with AUK, Ukraine
- Association for Women in Mathematics (AWM), SoMSS, ASU
- Association for Women in Science (AWS)
- Faculty of 1000 - publisher of services for life scientists and clinical researchers  
- *to keep abreast with the rapid advances in those field*

**COUNTRY OF ORIGIN:** Ukraine, Odessa

**LANGUAGES:** Fluent & Professional in Russian, Ukrainian, English

## LIST OF COURSES TAUGHT

**In total I have taught a wide range of courses:**

Brief Calculus, Calculus for Engineers I, II and III, Calculus for Life Sciences, Math for Business Analysis, College Algebra, College Mathematics, Precalculus (Pathways model).

- *I was chosen to teach my own class in Fall 2020: LIA 194: Special course, **my own design**. Topic: DiscSem: Math will save the world: medicine, AI and more.*
- *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.*
- *I was also chosen to teach Brief Calculus: Earned Admission (Global Freshman Academy).*
- *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 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
<b>MAT 493: Honors Directed Thesis Defense - Eric Ren on September 19, 2023 (as Research Director)</b>	<b>1 student</b>

### Summer 2023

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

### Spring 2023

MAT 267: Calculus for Engineers III	87 students
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 (online)	125 students
<b>LIA 194: Special course, my own design. Topic: DiscSem: Math is everywhere! STEM, culture and more</b>	<b>25 students</b>

<b>MAT 492: Honors Directed Study with Eric Ren (as Research Director)</b>	<b>1 student</b>
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<b>MAT 493: <u>Honors Directed Thesis Defense - Sofia Blavatsky on April 27, 2023 (committee member, research mentor)</u></b> <u>Misinformation on the Russian-Ukrainian War: A Case Study</u>	<b>1 student</b>
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### Fall 2022

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

**Summer 2022**

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

**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
<b>MAT 492: Honors Directed Study with Eric Ren (as Research Director)</b>	<b>1 student</b>

**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
<b>LIA 194: Special course, my own design. Topic: DiscSem: Math will save the world: medicine, AI and more</b>	<b>25 students</b>

**Summer, 2020**

<b>MAT493: <a href="#">Honors Directed Thesis Defense</a> - Emma Saarinen on August 7, 2020 (as Research Director)</b>	<b>1 student</b>
MAT 211: Math for Business Analysis (two classes)	190 students

**Spring, 2020**

<b>MAT 492: Honors Directed Study with Emma Saarinen (as Research Director)</b>	<b>1 student</b>
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**

<b>MAT 492: Honors Directed Study with Emma Saarinen (as Research Director)</b>	<b>1 student</b>
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
10 - Iuliia (Julia) Inozemtseva	

**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
<a href="#">MAT 492</a> : 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