CURRICULUM VITAE

Iuliia (Julia) Inozemtseva
Teaching (Full) Professor
School of Mathematical and Statistical Sciences
Arizona State University

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PROFESSIONAL APPOINTMENTS

Arizona State University - School of Mathematical and Statistical Sciences (SoMSS) **2017-current**
Teaching Professor (multi-year career-track) 2025-current
Associate Teaching Professor 2022-2025
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** **M.S. in Applied Mathematics** Emphasis in modeling in mathematical biology	**August 2014 – Summer 2017**
M.S.	**Georgia Southern University, Georgia, USA** **M.S. in Mathematics** Emphasis in mathematical modeling of gene mutation in predator-prey model	**August 2012 – August 2014**
M.S. **with Honor**	**Odessa National University, Odessa, Ukraine** **M.S. In Mathematics, with a teacher-training component** Emphasis in Differential Equations Program includes **Certification in Teaching Mathematics (University level)**	**September 2010- May 2012**
B.S. **with Honor**	**Odessa National University, Odessa, Ukraine** **B.S. in Mathematics, with a teacher-training component** Emphasis in Differential Equations Program includes **Certification in Teaching Mathematics (K-12 level)**	**September 2006 – July 2010**

Summary: Internationally engaged teaching professor specializing in mathematics education, undergraduate research, global curriculum development, and interdisciplinary STEM applications. Leader of international partnerships (Ukraine, India, Uzbekistan), large-scale teaching initiatives, national and international faculty mentoring. Recognized for innovation in teaching, global engagement, successful mentorship, outreach, and community impact.

INTERNATIONAL COLLABORATIONS

UKRAINE: **American University Kyiv (AUK) powered by ASU, 2022-ongoing**

- **with Prof. Dr. Antoniouk designing courses for the Bachelor Program in Software Engineering and Business, AUK**
- enabled Ukrainian students to pursue ASU dual-degree master's programs without leaving Ukraine during the war
- enabled collaboration between AUK students and Thunderbird School of Global Management, ASU

- 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**
- Helped creating math courses for the newly established world-class university in Kyiv, Ukraine **2022-2024: 300+ hrs**
- 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: https://math.asu.edu/collaboration-kyiv

INDIA: Shiv Nadar University and Chitkara University, through ASU's Cintana Alliance 2025

Delivered a sequence of uniquely designed courses, and a masterclass: Mathematical Modeling in Medicine, Mathematicians in NASA Planetary Defense Research, Mathematics behind Image Recognition and Machine Learning

REPUBLIC of UZBEKISTAN, Surkhandarya Academic Lyceum of the Ministry of Internal Affairs 2026

- I support STEM education initiatives, share modern STEM teaching approaches. I'm a keynote speaker at their conference

COLLABORATIONS WITH VARIOUS ASU INSTITUTIONS

1. **ASU-Cintana ACI Webinar, Master Class:** Decoding Disease: The Power of Mathematical Models in Modern Medicine: Innovation. My course was taught online for 800+ students watching & asking questions live, from 15+ countries, and was simultaneously translated into Spanish. **10/15, 2025**
2. **EdPlus**:"MathSpine" project: Designing & recording videos/notes (interconnected courses) **2018, 2020, 2021, 2024**
3. **OLLI** (Osher Lifelong Learning Institute): Designing and teaching classes **2024-2026**
4. **Thunderbird** School of Global Management: SoMSS representative, via AUK exchange program **2024**
5. **CINTANA** Education: collaboration with AUK and Dr. Cagri Bagcioglu, Regional CEO **2022-2024**
6. **Melikian Center**, **Affiliate**: Mentoring, grant application (with David P. Brokaw, Program Coord) **2022-current**
7. **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)**:** **2024-2025**
   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 Mousses – 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: **2025(6), 2024 (8), 2023 (4), 2022 (4), 2018-2021 (13)**

1. Pathways to cultures: Cross-cultural quantitative text analysis of "trauma," "stress," and "ADHD" to measure misuse, stigma, and public awarenes – data analysis and predictions
2. Mathematical Modeling of Epidemics Spread: Black Death, Malaria, Ebola in Africa, Ebola in China, Anthrax, Rabies, Gonorrhoeae, Influenza, Dengue Disease, COVID-19, HIV-AIDS;
3. Thesis Pathway: Global Citizen
4. Education in Prison, community outreach;
5. AI, Traffic Equations, face recognition, Machine Learning, Fourier Transform in Image Processing, Encryption;
6. Mathematical Modeling of Cancer, tumor, math in neuroscience
7. Lebesgue Integral Approximation Software/Animation

COMMITTEES SERVED

1. Melikian Center Awards Program (MCAP) Committee: scholarship review for the Critical Language Institute **2025**
2. Assistant Teaching Professor **Hiring** Committee: 160+ applications, 20+ interviews **2024-2025**
3. Faculty **Affiliate** for Melikian Center for Russian, Eurasian, and East European Studies **2022-current**
4. Teaching Faculty Mentoring Committee **2020-current**
5. Graduate Teaching Assistant Training committee **Summer, 2023**
6. 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
7. Title VI **grant** application, Department of Education (with David P. Brokaw, MA, MBA, Program Coordinator) **2022**
8. Assistant Teaching Professor **Hiring** Committee (two years) **2022-2023**
9. **EdPlus** "**MathSpine**": **interconnected courses** MAT117, MAT210, MAT265 - Creating Lectures &Videos **2018,2020, 2021**
10. Lecturer **Hiring** Committee (three years) **2019-2020-2021**
11. Instructor **Hiring** Committee **Summer 2021**
12. 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. **(OLLI) Osher Lifelong Learning Institute at ASU**: "Modern Ethical Challenges with AI Applications" **6/1/2026**
2. **Selected to talk at the Future of Learning Community Fest (FOLC), hosted by the** Office of the University Provost)
   Interactive Presentation: *"Technology and innovation in the classroom"* **2/6/2026**
3. Graduate TA Training workshops: "First Day in the Classroom,", "Instructional technologies", SoMSS **8/2025**
4. **OLLI at ASU and Sun Health organization**: one course, 1.5 hours **9/22/2025**
   - including adult learners & community members across Arizona. Title: "Mathematical Modeling in Biology & Medicine"
5. **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**
6. **OLLI at ASU: three sessions course, 4.5 hours total**
   "*The Magic of Math: Global Applications in the 21st century*" **Fall 2024**
7. **Selected to talk at the Future of Learning Community Fest (FOLC), hosted by the** Office of the University Provost)
   "Internation Collaboration with American University Kyiv (AUK): technology and innovation" **4/14/2024**
8. Graduate Students Seminar, SoMSS, ASU: "Application for a teaching position at the college level" **Fall 2024**
9. Paul Vaz Seminar, SoMSS, ASU: "Make your math classes memorable: animations, applications and technology" **Fall 2024**
10. **AWSiM 2024 (NAU)**: Contributed Talk: "*Mathematical collaboration with Ukraine during the war*" **Fall 2024**
    Round Table Discussions: "*Teaching and Mentoring International Students"*
11. Paul Vaz Math Seminar at SoMSS, ASU: "*ESL and International student: struggles and isolation*" **Spring 2024**
12. Early Start Program: Talk: "*Math will save the world*" and Round Table Discussions (SoMSS, ASU) **Summer 2024**
13. **Brown University**: invited speaker for the Joint Applied & Pure Math Teaching Symposium **Fall 2023**
14. **Collaboration with American University Kyiv (AUK),** (Paul Vaz Math Seminar at SoMSS, ASU) **Fall 2023**
    https://math.asu.edu/collaboration-kyiv
15. **AWSiM 2023**: Contributed Talk: "*Math will save the world: applications in education*" **Fall 2023**
    Arizona Women's Symposium in Mathematics, NAU, Flagstaff, AZ
16. **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*"
17. Early Start Program: "*Math will save the world*", (SoMSS, ASU) **Summer 2023**
18. Early Start Program: "*Amazing Applications of math in the real world*", (SoMSS, ASU) **Summer 2022**
19. **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
20. **AWSiM 2022**, workshop with Rhonda Olson, Chair of the DEIB committee (ASU): **Fall 2022**
    "*To speak or not? A Bystanders Dilemma*"
21. 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*"
22. Paul Vaz Undergraduate Mathematics Seminar (PVUMS): "*Having Fun While Teaching Calculus*" **Fall 2022**
23. Professional Development Seminar for Graduate students: "*Writing Teaching Statements"* **Fall 2022**
    - together with Diversity, Equity, Inclusion and Belonging (DEIB) Seminar
24. Professional Development and DEIB Seminar: "*Writing Diversity Statements - talk and panel discussion*" **Fall 2022**
25. ASU Teaching Experience Conversation Series: "*Teaching Experience: online and in person*" (ASU) **Fall 2021**
    - showcase faculty exploring new approaches to engaging learners
26. 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"*
27. Graduate Teaching Assistant Training: "*Teaching and Diversity in classrooms*" (SoMSS, ASU) **Fall 2021**
28. Professional Development Seminar, Panel: "*Teaching and community colleges*" (SoMSS, ASU) **Spring 2021**
29. Professional Development Seminar: "*Teaching profession and practices*" (SoMSS, ASU) **Fall 2020**
30. First Year Mathematics Seminar, (SoMSS, ASU) **2019**
    "*How to stop giving back hard copies of exams/quizzes and create a digital database for students*"
31. First Year Mathematics Seminar (SoMSS, ASU): "*GradeScope and other scanning grading tools*" **2019**
32. Tutor Center Workshops, ASU: "*how to tutor MAT265-MAT266 classes*", (SoMSS, ASU) **2019**

EDUCATIONAL VIDEOS & CURRICULUM INNOVATION for ASU

1. MAT 266: Calculus II for Engineers: Redesigned course materials to meet accessibility (ADA) standards **2025-2026**
   - *Canvas shells, syllabus, supplemental materials, exam reviews, study guides, practice tests*
2. Academic Support Network: Project "Tutorbot for MAT265" – worked as a Faculty Expert, edited/wrote notes (75 hrs) **2024**
3. EdPlus "**MathSpine Project**" **- 95 videos** for MAT 265 and integration into Edfinity **Summer 2024**
4. EdPlus: videos and Power Points for MAT 210, MAT 265 courses, Math Spine Project **2018, 2020, 2021**
5. ASU Open Doors video "*Math can save the world*": https://opendoor.asu.edu/math-can-save-world-4463
6. Education Video for SoMSS: Teaching during COVID - ***Julia Inozemtseva - Calculus I, II, III***
7. YouTube Channel: "MathSlopes with Julia": https://www.youtube.com/c/MathSlopeswithJulia **570+ videos, 2020-current**

DESIGNING & TEACHING SPECIAL COURSES:

1. LIA 194: Special course. *Topic: DiscSem: Should we trust AI* ***(total: 11 hours)*** **Fall 2026**

Discussions driven course on real-world ethical dilemmas created by AI and large-scale data collection. Using weekly debates, case studies pulled from current events, and hands-on ethical scenarios, students explore how AI shapes everyday life, from classrooms and social media to transportation, surveillance, and beyond.

2. A sequence of completely new innovative lectures (1.5 hrs each) **Fall 2025**

Through ASU's Cintana Alliance, I have delivered applied math lectures and master classes for international partner universities in **India: Shiv Nadar University and Chitkara University**.
I also taught these classes for Osher Lifelong Learning Institute **(OLLI)** at ASU.

- **Mathematical Modeling in Medicine**: Using math to model disease spread, cancer growth, and antibiotic resistance.
- **Mathematicians in NASA Planetary Defense Research:** Utilizing mathematical models to understand celestial mechanics and protect Earth from potential asteroid impacts
- **Mathematics behind Image Recognition and Machine Learning:** Application of math techniques to image and text recognition and neural networks

3. (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**

4. MAT 491-493: Honors Thesis Defense **2019, 2020, 2022, 2023, 2024**

5. LIA 194: Special course. *Topic: Math will save the world: medicine, AI and more (11 hours total)* **Fall 2020, Spr 2023**

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 (not designing) SPECIAL COURSES:

1. **Data Science and Society (DAT 250):** **Fall 2024 – current**
   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. Attendance two days of talks and workshops at the Future of Learning Community Fest (FOLC), hosted by the Office of the University Provost, ASU **2/6/2026**
2. Talk: “Public-Science Communication and Outreach in Mathematics" by Pr Volkening, Purdue University **Fall 2025**
3. Talk: "Compassion in & Access to Learning Mathematics (CALM)", by Dr. H. Soto, Colorado State University **Fall 2025**
4. Talk: “Klein Bottles and Möbius Bands reveal their secrets" by Dr. Moira Chas, Stony Brook University **Spring 2025**
5. Talk: “Multiscale Models for Enhancing our Understanding of Tumor-Immune Dynamics and Combination Therapies" by Trachette Jackson, Associate Vice President for Research **March, 2025**
6. Workshop: “Gender Equity Transitions: from awrness to action” by Dr. Sather-Wagstaff, AWM, ASU 11/18/2025
7. 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
8. Attendance two days of talks and workshops at the Future of Learning Community Fest (FOLC), hosted by the Office of the University Provost, ASU **4/14/2024**
9. Workshop: Provost's Faculty and Academic Professional Search **(2 hrs) 2024**
10. 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
11. *Attended majority of meetings, workshops and trainings* by the AWM chapter at SoMSS, ASU **2017-current**
12. Workshop: The College’s Fall 2023 Career-Track Faculty Promotion, ASU **(1.5 hrs long) 2023**
13. Workshop: “*Diversity in Graduate Mathematical Sciences*” by paraDIGMS and AWS, DEIB Conference **(5 hrs) 2022**
14. Workshop: “*Equity in Graduate Admissions*” by IGEN **(4 hrs) 2022**
15. Workshop: “*Tackling Implicit Bias and Microaggressions*” **(1.5 hrs) 2022**
16. 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
17. 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*”
18. Virtual Talks/Discussions: “*We Speak: Inspiring Women in Math Speaker Series*” by AWM – 11 talks **(11 hrs) 2021**
19. **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/
20. Workshop: “*Active learning for in-person and online courses*”, MLF Teachers College **(2 hrs) 2021**
21. Workshop: “*Promotion for NTE Faculty: Strategies & Considerations”*, ASU **(1.5 hrs) 2021**
22. Workshop: “*A Workshop on Uncovering Historical Departmental Data on Underrepresented Students*”, AMS **2021**
23. Conference: “*Antiracist Teaching, Language, and Assessment*”, Oregon State University **2021**
24. Workshops: “*Academic personnel search workshops*”, ASU **2021**
25. Workshops: “*Identifying and Disrupting Microaggressions*”, ASU **2021**
26. Workshop: “*Dismantling Systemic Racism in Higher Education: An Unfinished Project*”, ASU **2021**
27. Conference: “*Annual Prison Education Conference*”, ASU **2021**
28. 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*”
29. Seminar: Data science seminar **2021**
30. DEIB Educational Conference, Virtual: "*Evidence In Motion*" **2021**
31. Training: Advising for ASU Club **2020, 2021**
32. Workshop: “*Uncovering Historical Departmental Data on Underrepresented Students*” **2020**
33. Workshop: “*Inclusivity - Lessons Learned*", Summer Workshop for Achieving Greater Graduate Educational Readiness **2020**
34. Workshop: “*RISE UP: Frameworks for evaluating inclusive course design*” **2020**
35. 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. Actively mentored **International Visiting Scholars**: Summer-Fall 2025
- Charlie Lindgren, Visiting Scholar/Faculty/Researcher from Dalarna University (Sweden), STINT program
- Sardorbek Murodov, Visiting Scholar, Applied Math & CS from Termez State University (Uzbekistan), FEP program
2. Undegraduate Club "STEMathematics"– ADVISOR 2024-2025
3. Coordinator of MAT 266 (Calculus for Engineers II): *25-30 large sections (1400+ students) per year: mentoring 10+ grad students and 15-20 Instructors* ***every year*** 2019-current
4. Mentored Honors students: honors enrichment projects – **total 30** 2018-2024
5. Wrote MANY recommendation letters for undergraduate **(62)** and graduate students **(5)**, colleagues **(8)** 2017-2026
6. Actively mentored Teaching Assistant Professors, Instructors, Grad Students and Post Doctoral Associates 2018-2024
7. Co-coordinated large sections of MAT 265 courses, near **1800** students per year 2018-2019
8. Undegrad Math Club – ADVISOR 2021-2022

❖ Teaching Observations & Evaluations (SoMSS):

Teaching Professors & Instructors, Grad Students, Post Doctoral Associates: 2025 (5), 2024 (3), 2023 (6), 2022 (5), 2021 (7)

❖ Mentoring Faculty & Graduate Students:

Some for several years: 2025 (7), 2024 (6), 2023 (7), 2022 (8), 2021 (10), 2020 (4)

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.

❖ International Visiting Scholars: Summer - Fall 2025

1. Charlie Lindgren, Visiting Scholar/Faculty/Researcher from Dalarna University (Sweden). Visited for one semester via STINT: The Swedish Foundation for International Cooperation in Research and Higher Education.

2. Sardorbek Murodov, Applied Mathematics & Computer Science from Termez State University (Uzbekistan), visited for one semester via Faculty Enrichment Program (FEP) for Uzbek visiting scholars. Organized by The Melikian Center

- Teaching Assistant Professors: M. Mercer (2025-current), I. Ionaşcu (2025), A. Leighton (2024), 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: A. Goyal, J. Lehner, A. Seraliyev, O. LaReaux (2025-2026), E. Ren, O. Avashi, V. Melnyk, K. Ranjan (2023-2024), C. Moran (2020-2023), S. Sadak (2021-2022), I. Marrero (2021)

MY MATH YOUTUBE VIDEOS: 570+ 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 Canyong 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

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", **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**

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, Space Science
- 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

COUNTRY OF ORIGIN: Ukraine, Odessa
LANGUAGES: Fluent & Professional in Russian, Ukrainian, English

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 aminations and videos to visualize the material in each course.

MATH EDUCATION COURSES AND WORKSHOPS

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

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* **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.

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 MRSAand 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**

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

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 2025

DAT 250: Data Science and Society	**50 students**
DAT 250: Data Science and Society (online)	**70 students**
MAT 266: Calculus for Engineers II	100 students
MAT 267: Calculus for Engineers III (online)	130 students

Summer 2025

MAT 266: Calculus for Engineers II	100 students

Spring 2025

DAT 250: Data Science and Society	**60 students**
DAT 250: Data Science and Society (online)	**80 students**
MAT 266: Calculus for Engineers II (three courses)	300 students

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: Honors Directed Thesis Defense - 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
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