

# Anastasiia Minenkova

## Curriculum Vitae

MONT 117

Department of Mathematics

University of Connecticut

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## Education

- 2017–present **PhD student in Applied Mathematics**, *University of Connecticut*, Storrs, CT, USA.  
2021 **Graduate Certificate in College Instruction student**, *University of Connecticut*, Storrs, CT, USA.  
2014–2016 **Master of Science in Mathematics**, *University of Mississippi*, Oxford, MS, USA, *GPA–4.0*.  
2006–2007 **Magister's Degree in Mathematics**, *Donetsk National University*, Donetsk, Ukraine, (*with honors*).  
2002–2006 **Bachelor's Degree in Mathematics**, *Donetsk National University*, Donetsk, Ukraine, (*with honors*).

## Employment

- Fall 2020 – present **Graduate Assistant**, *Q Center*, University of Connecticut, Storrs, CT.  
I organized workshops for tutors, reviews for students, was involved in the hiring process: interviewed potential tutors.  
Spring 2015 **Tutor/Deskworker**, *Mathematics Lab*, University of Mississippi, Oxford, MS.  
I tutored for Elementary Statistics, Trigonometry, College Algebra), Precalculus, Business calculus, Calculus I–IV, Foundations of Mathematics, Differential equations; proctored exams

## Publications

11. **Gohberg-Kaashoek Numbers and Forward Stability of the Schur Canonical Form**, with Evelyn Nitch-Griffin and Vadim Olshevsky, 2021, [arXiv:2110.15334](https://arxiv.org/abs/2110.15334).
10. **Backward Stability of the Schur Canonical Form**, with Evelyn Nitch-Griffin and Vadim Olshevsky, 2021, [arXiv:2108.02312](https://arxiv.org/abs/2108.02312).
9. **A theorem of Joseph-Alfred Serret and its relation to perfect quantum state transfer**, with Maxim Derevyagin and Nathan Sun, *Expositiones Mathematicae*, **39**, Issue 3, 2021, p. 480–499.
8. **Lipschitz stability of  $\gamma$ -FOCS and RC canonical Jordan bases of real  $H$ -selfadjoint matrices under small perturbations**, with Sahinde Dogruer and Vadim Olshevsky, 2019.
7. **Existence of  $\gamma$ -FOCS for real  $H$ -selfadjoint matrices**, with Sahinde Dogruer and Vadim Olshevsky, 2019.
6. **Integral identities for polyanalytic functions**, with Olga D. Trofimenko, in: Abell M., Iacob E., Stokolos A., Taylor S., Tikhonov S., Zhu J. (eds) *Topics in Classical and Modern Analysis, Applied and Numerical Harmonic Analysis*, Birkhäuser, Cham, 2019, p. 279–291.
5. **A continuation of solutions to convolution equations with the loss of smoothness**, *Lobachevskii Journal of Mathematics*, **38**, Issue 3, 2017, p. 488–493.
4. **The nonintegrability of an extension of solutions to the convolution equation from Gevrey class**, *Transactions of Institute of Applied Mathematics and Mechanics*, 2009, **19**, p. 143–147 (in Ukrainian).
3. **Theorems about non-integrability of an extension of solutions to the convolution equation**, *Bulletin of Donetsk National University – S. A. Natural sciences*, 2009, **1**, p. 21–24 (in Ukrainian).
2. **On the character of nonintegrability for an extension of solutions of convolution equations**, *Transactions of Institute of Applied Mathematics and Mechanics*, 2008, **18**, p. 152–155 (in Russian).
1. **The behavior of integral of an extension of solution to convolution equation**, *Transactions of Institute of Applied Mathematics and Mechanics*, 2008, **17**, p. 144–147 (in Russian).

## Conferences/Workshops organized

- Fall 2021 **Seminar Series on Cross-racial/gender/cultural mentoring**: co-organized with Mihai Fulger and Veronique Bazzier-Matte, *University of Connecticut*, Storrs, CT.  
October 2021 **Mathematics Continued Conference**: co-organized with Corrie Ingall and Kim Savinon, *UConn*.  
October 2020 **Mathematics Continued Conference**: co-organized with Alyssa Genshaw and Lisa Naples, *UConn*.  
April 2018 **The SIAM Computer Software Workshop II**, *UConn*.  
January 2018 **The SIAM Computer Software Workshop for graduate students**, *UConn*.

## Teaching Experience

GRADUATE STUDENT INSTRUCTOR

University of Mississippi

Fall 2015–Spring 2017

- Math 125 (Precalculus) and Math 261 (Calculus I) as **primary instructor**

TEACHING ASSISTANT

University of Connecticut

Fall 2017–present

- Math 1131Q (Calculus I), Math 1132Q (Calculus II), Math 2110Q (Multivariable Calculus) as **teaching assistant**
- Math 2110Q (Multivariable Calculus) as **teaching assistant** for *online class*
- Math 2210Q (Applied Linear Algebra) as **primary instructor**
- Math 1030Q (Elementary Discrete Mathematics) as **primary instructor** for UConn SSS Summer program at the University of Connecticut which is a five week intensive summer program prior to the fall semester of freshmen year designed to prepare under-represented or first generation student populations for a college education, improve their on campus experience, and provide tools to be successful in their careers and leadership positions. My role was to teach newly admitted students fundamental mathematics courses in order to help with the transition.

## Grants and Awards

- 2022 Conference Participation Award, UConn
- 2021 AWM and AMS Graduate Student Travel Grants for 2022 JMM.
- 2021 *Doctoral Fellowship*, Graduate School, UConn.
- 2021 *Louis J. DeLuca Memorial Award* to acknowledge the impressive teaching accomplishments, Department of Mathematics, UConn.
- 2020 *Virtual Grad Student Travel Grant* for attendance at the Joint Mathematics Meetings, AMS.
- 2020 *Predocutorial Fellowship for Spring 2021*, Department of Mathematics and Graduate School, UConn.
- 2020 *Connie Strange Community Award*, Department of Mathematics, UConn.
- 2020 *Graduate Student Travel Grant* to Spring 2020 AMS Sectional meetings. (*the meeting was canceled*)
- 2019 *The Edward Victor Gant Scholarship*, the scholarship is granted on the basis of academic excellence, professional potential, dedicated service, and exemplary integrity.
- 2018, 2019 *The Provost letters* commending for excellence in teaching, *University of Connecticut*.
- 2018 As the president of the University of Connecticut's AMS Graduate Student Chapter I secured the funding of \$845 (incl. \$95 in prizes I obtained from Cengage Learning and local vendors for the integration bee) for our chapter and organized a talk given by Dr. Emma Previato (Boston University).
- 2017 Travel grant for participation in International Conference in Approximation Theory.  
*Honor Societies* – Phi Kappa Phi (University of Mississippi), Golden Key nominee (University of Mississippi), Gamma Beta Phi nominee (University of Mississippi)

## Contributed Talks

Upcoming:

- 2022 **Joint Mathematical Meetings**, January 5–8, 2022, Seattle, WA.

Past:

- 2021 **Analysis learning seminar, 3 December 2021**, UConn, Storrs, CT.
- 2020 **Sparse Days Meeting, 23-24 November 2020**, *Virtual Workshop*, Cerfacs, Toulouse, France.
- 2020 **Spring Eastern Sectional Meeting, Special Session on Quantum Probability, Orthogonal Polynomials, and Special Functions (invited speaker)**, Tufts University, Medford, MA, (*the meeting was canceled due to COVID-19 situation*).
- 2019 **4th Annual North Eastern Analysis Meeting**, Syracuse University, Syracuse, NY.
- 2019 **Spring Eastern Sectional Meeting, Special Session on Recent Advances in Structured Matrices and Their Applications (invited speaker)**, "**Lipschitz stability of certain canonical Jordan bases of real  $H$ -selfadjoint matrices under small perturbations**", UConn, Hartford, CT.
- 2019 **44 Annual NY State Regional Graduate Mathematics Conference**, Syracuse University, Syracuse, NY.
- 2019 **UConn Math Club expository talk titled "Calculus of Finite Differences"(invited speaker)**, UConn.
- 2018 **UConn Math Club expository talk titled "Acceleration of Series Convergence"(invited speaker)**, University of Connecticut, Storrs, CT.

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## Recent meetings

- Blackwell Tapia Conference 2021, November 18-20, 2021. (*poster presentation*)
- 2021 ICERM Public Lecture: "More data, more problems – Double-dipping in statistics" by Daniela Witten.
- Jumpstart Virtual Conference on Racial Justice, Teaching, Leading, and Curriculum, July 28, 2021, hosted by the Initiative for Race Research and Justice, Vanderbilt University's Peabody College.
- MSRI Summer School "Mathematics of Big Data: Sketching and (Multi-)Linear Algebra", Summer 2021.
- Joint Mathematical Meetings, January 6–9, 2021, *Virtual Conference*.
- Mathematics Continued Conference, *University of Connecticut*, 2019, 2020, Storrs, CT
- The 2019 Northeast Analysis Network Conference, University of Connecticut, Storrs, CT
- The 40th International Conference on Quantum Probability and Infinite Dimensional Analysis, *Ohio State University* August 12–16, 2019, Columbus, OH
- Geometric and Harmonic Analysis, *University of Connecticut*, March 29–31, 2019, Storrs, CT
- Joint Mathematical Meetings, January 16–19, 2019, Baltimore, MD
- Women in Mathematics and Statistics Conference (WIMS), *Harvard University*, April 7, 2018, Cambridge, MA
- Women In Mathematics In New England, *Smith College*, September 16, 2017, Northampton, MA
- International Conference in Approx. Theory, *Georgia Southern University*, May 8–11, 2017, Savannah, GA

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## Synergistic Activities - Mathematics Community:

- Fall 2021 **Tutor-Volunteer**, Women in Math, Science, Engineering Learning Community, UConn
- Spring 2021 **Panelist**, Being and Giving-back as a Woman in STEM, WiMSE Sophomore Class Panel, UConn
- 2020–present **Vice-President**, as of 2021 **President** of AWM Graduate Student Chapter, UConn
- Fall 2020 **Mentor**, Directed Reading Program with *Gregory Aschenbrenner*, UConn
- 2019 **Mathematics Continued Conference**: Panel on Applying to Grad School in Mathematics (invited panelist).
- 2019–present **New TA Orientation**, UConn
- I have volunteered to help with the orientation for new teaching assistants in the mathematics department. I facilitate small group discussion about lesson planning, time management, and teaching strategies, as well as responding to questions during the large group meetings. I also critique mini-lessons prepared and taught by the students in groups.*
- 2019 **Member of Data Collection Committee** for [Notable Women in Mathematics Project](#), AWM
- Spring 2019 **Mentor**, Directed Reading Program with *Xiaoran (Rachel) Tan*, UConn
- 2019 **Volunteer**, MATHCOUNTS Competition, UConn
- 2018–2019 **President** of AMS Graduate Student Chapter, UConn
- I hosted Prof. Emma Previato (Boston University) who gave a talk at the SIGMA seminar.*
- 2018–present **TA Mentor**, TA Network Program, UConn
- 2017–2018 **Vice-President** and **Co-founder** of AMS Graduate Student Chapter, UConn
- 2017–2020 **Treasurer**, **Webmaster** and **Co-founder** of SIAM Graduate Chapter, UConn
- I hosted Prof. Breno Fragomeni (UConn Animal Science department), Prof. Donald Sheehy (UConn Computer Science department), and Prof. Misha Kilmer (Tufts University) who gave a talk at the SIGMA seminar.*
- 2018 The first and second annual Integration Bee for undergradute students at UConn, *organizer*
- 2016–2017 **President** of AMS Graduate Student Chapter, University of Mississippi  
**AMS, AWM, SIAM member**

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## Professional Activities

- Data Analysis Project* I worked on a project with UConn Health Center for Quantative Medicine and the Jackson Laboratory for Genomic Medicine. It dealt with medical data analysis using t-sne and diffusion maps techniques utilizing R programming.
- Referee for *SIAM Review*, *Journal of Difference Equations and Applications*, *Linear and Multilinear Algebra*.
- Revier for *Mathematical Reviews*.

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## Editorial Experience

- 2011–2013 **Assistant editor**, *Versita de Gruyter*, book publishing program in Mathematics.

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## Computer skills

LaTeX, MATLAB, Maple, Mathematica, R, OpenOffice, Microsoft Office, BlackBoard, Pearson MyMathLab, Cengage WebAssign, Piazza