# Ioulia Rytikova, Ph.D.

Curriculum vitae

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George Mason University, Fairfax, VA 22030

## Education

**National University of Science and Technology**
*Ph.D. in Automated Control Systems*

**National University of Science and Technology**
*B.S./M.S. in Automated Control Systems Engineering and Information Processing*
Diploma with honors

## Professional Employment

**Department of Information Sciences and Technology, George Mason University, Fairfax, VA**

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|---|---|
| Full Professor | 2020 - present |
| Associate Chair for Graduate Studies | 2016 – present |
| MS AIT Online Program Director | 2020 - present |
| Associate Professor | 2012 – 2020 |
| Assistant Professor | 2007 – 2012 |

**Personalized Learning in Applied IT Laboratory, George Mason University, Fairfax, VA**

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|---|---|
| Founding Co-Director | 2013 – present |

**Department of Applied Information Technology and Department of Applied and Engineering Statistics, George Mason University, Fairfax, VA**

| | |
|---|---|
| Assistant Professor (joint appointment) | 2003 – 2007 |
| Instructional Faculty (joint appointment) | Spring 2003 |
| Adjunct Professor | Fall 2002 |

**School of Business and Economics, Lynchburg College, Lynchburg, VA**

| | |
|---|---|
| Instructional Faculty | 2001 – 2002 |

## Awards and Recognitions

**GMU Online Teaching Excellence Award** 2021

**GMU Teaching Excellence Award** 2020
Category: *Mason Teachers of Distinction*

**GMU Presidential Award for Faculty Excellence** 2017
Category *Excellence in Teaching* (nominated)

**VCU School of Nursing Recognition Award, Doris. B. Yingling Lectureship** 2016
Presentation on "Big Data Educational Ecosystem"

**GMU Center for Teaching and Faculty Excellence** 2014
First School of Engineering faculty member selected to teach in ALT classrooms

**GMU Distance Education Award** 2012
Semifinalist

**GMU Volgenau School of Engineering Outstanding Teaching Award** 2008

**Best PhD Dissertation Award** (1 per year)

**BS/MS Diploma with honors** (1 per graduation year)

## Sponsored Projects:

**Department of Defense Cyber Scholarship Program**
Participants: Massimiliano Albanese (PI), Sushil Jajodia (co-PI), Ioulia Rytikova (co-PI), Khondkar Islam (Co-PI). Performance period: 08/19/2021 - 11/18/2022

**Curriculum Impact Grant, Mason: Building a Highly Qualified, Creative, and Adaptable STEM Workforce through Collaborative Multi-disciplinary Research in Data Science Graduate Programs**
Participants: Ioulia Rytikova (Project Leader), Mihai Boicu, Harry Foxwell, James Baldo. Performance period: Summer, 2020 – Summer, 2021

**Department of Defense Cyber Scholarship Program**
Participants: Massimiliano Albanese (PI), Sushil Jajodia (co-PI), Ioulia Rytikova (co-PI), Khondkar Islam (Co-PI). Performance period: 09/02/2020 - 12/30/2021

**Department of Defense Cyber Scholarship Program**
Participants: Massimiliano Albanese (PI), Sushil Jajodia (co-PI), Ioulia Rytikova (co-PI), Khondkar Islam (Co-PI). Performance period: 09/15/2019 - 09/15/2020

**Department of Defense Cyber Scholarship Program**
Participants: Sushil Jajodia (PI), Massimiliano Albanese (Co-PI), Ioulia Rytikova (Co-PI), Khondkar Islam (Co-PI). Performance period: 09/15/2018 - 09/15/2019

**Department of Defense Cyber Scholarship Program**
Participants: Sushil Jajodia (PI), Massimiliano Albanese (Co-PI), Ioulia Rytikova (Co-PI). Performance period: 09/14/2017 - 09/13/2018

**OSCAR, GMU: Incorporating Research into Undergraduate IT Curriculum**
Participants: Ioulia Rytikova (Project Leader), Mihai Boicu, Setareh Rafatirad. Performance period: Summer, 2016 – Summer, 2018

## Curriculum Development

### Summary

Developed/Substantially redesigned programs: **12**
Developed/Substantially redesigned courses: **15** (**6** graduate; **9** undergraduate)
Developed online courses: **19** (**4** graduate; **6** undergraduate)

**Developed/Substantially Redesigned Programs**

| | |
|---|---|
| **Wiley Online MS AIT:** Developed (project leader) | 2020 – current |
| **Wiley Online MS in Data Analytics Engineering**:<br>Contributed to the development (designer and developer) | 2016 – 2018 |
| **MS in AIT**: Substantially redesigned (project leader) | 2016 – 2017 |
| **PhD in IT**, Information Sciences and Technology concentration:<br>Substantially redesigned (project leader) | 2016 – 2017 |
| **MS in Data Analytics Engineering**, Applied Analytics concentration:<br>Substantially redesigned (project leader) | 2016 – 2017 |
| **Accelerated MS in AIT:** Substantially redesigned (project leader) | 2016 – 2017 |
| **Online MS AIT,** Data Analytics and Intelligence concentration:<br>Contributed to the development (designer and developer) | 2015 – 2016 |
| **Online BS IT,** Health Information Technology concentration and<br>Database Technologies and Programming concentration (DB courses)<br>(designer and developer) | 2013 – 2015 |
| **BS IT:** Health Information Technologies concentration<br>Created new concentration (designer and developer) | 2013 – 2014 |
| **Intelligence Community Program**:<br>Contributed to the development (developer) | 2010 – 2011 |
| **School of Engineering Interdisciplinary Certificate "E-manufacturing":**<br>Contributed to the development (designer and developer) | 2009 – 2010 |
| **BS IT:** Database Technologies and Programming concentration<br>Created new DB courses (designer and developer) | 2005 – 2009 |

**Developed/Substantially Redesigned Courses**

***Graduate Courses***

| | |
|---|---|
| AIT 614: Big Data Essentials (**new**) | 2016 |
| AIT 524: Database Management Essentials (**new**) | 2016 |
| AIT 690: Advanced Topics in AIT/Data Engineering Emerging Technologies (**new**) | 2014 |
| ECE 590: Database Structures for Industrial Manufacturing (**new**) | 2009 |
| IT 508: Programming Languages for Manufacturing (**new**) | 2009 |
| STAT 530: Mathematical Methods for Statistics and Engineering | 2003 |

***Undergraduate Courses***

| | |
|---|---|
| IT 194: Review of Database Fundamentals (**new**) | 2015 |
| IT 324: Health Information Technology Fundamentals (**new**) | 2014 |
| IT 322: Health Data Challenges (**new**) | 2013 |

| | |
|---|---|
| IT 344: Information Storage and Management Technologies (**new**) | 2010 |
| IT 314: Database Programming **(new)** | 2006 |
| IT 414: Database Administration | 2005 |
| IT 214: Database Fundamentals | 2005 |
| STAT/IT 250: Introduction to Statistics I | 2005 |
| STAT 344: Probability and Statistics for Engineers and Scientists I | 2003 |

**Distance Education Development**

***Graduate Courses***

| | |
|---|---|
| Wiley AIT 524: Database Management Essentials | 2020 |
| AIT 614: Big Data Essentials | 2016 |
| AIT 524: Database Management Essentials | 2016 |
| AIT 690: Advanced Topics in AIT/Data Engineering Emerging Technologies | 2014 |

***Undergraduate Courses***

| | |
|---|---|
| IT 194: Review of Database Fundamentals | 2015 |
| IT 324: Health Information Technology Fundamentals | 2014 |
| IT 322: Health Data Challenges | 2014 |
| IT 314: Database Programming | 2013 |
| IT 214: Database Fundamentals (co-dev) | 2012 |
| IT 344: Information Storage and Management Technologies | 2010 |

## Teaching

Most courses consistently receive top student ratings of instruction.

***Graduate Courses***

| | |
|---|---|
| AIT 524: Database Management Essentials (25 students) | 2016 – present |
| AIT 614: Big Data Essentials (25 students) | Summer 2020 |
| AIT 796: Directed Reading and Research ( 1 student) | Fall 2018 |
| AIT 690: Advanced Topics in AIT/Data Engineering Emerging Technologies (25 students) | 2015 – 2016 |
| AIT 699: Research Capstone (1 student) | Spring 2016 |
| ECE 590: Database Structures for Industrial Manufacturing (20 students) | Spring 2008 |
| IT 508: Programming Languages for Manufacturing (15 students) | Summer 2008 |
| STAT 530: Mathematical Methods for Statistics and Engineering (20 students) | Fall 2003 |

***Undergraduate Courses***

| | |
|---|---|
| IT 214: Database Fundamentals (30– 40 students) | 2005 – 2018 |
| IT 194: Review of Database Fundamentals (25 students) | 2014 – 2017 |
| IT 103: Introduction to Computing (52 students) | 2013 – 2016 |
| IT 322: Health Data Challenges (10 students) | Spring 2014 |
| IT 314: Database Programing (30 students) | 2006 – 2013 |
| IT 414: Advanced Database Management (20 students) | 2005 – 2006 |
| STAT 344: Probability and Statistics for Engineers and Scientists I (80 students) | 2003 – 2006 |
| STAT/IT 250: Introduction to Statistics I (120 students) | 2002 – 2007 |
| DESC 210: Statistical Analysis for Management (80 students) | Fall 2002 |
| BUAD 301/302: Integrated Business Principles (50 students) | 2001 – 2002 |
| BUAD 241: Business Statistics (40 students) | 2001 – 2002 |

## Adjunct Faculty Mentoring

Over twenty-five adjunct faculty (since 2005)

## Advising

*Dissertation Committee*

| | |
|---|---|
| Brian K. Ngac (Information Sciences & Technology; Advisor: Mihai Boicu) | 2020 – current |
| Maryam Hedairi (Electrical & Computer Engineering; Advisor: Jim Jones) | 2020 – 2022 |
| Sarah F. Kabli (Electrical & Computer Engineering; Advisor: Jim Jones) | 2015 – 2018 |
| Ehab Abozinadah (Electrical & Computer Engineering; Advisor: Jim Jones) | 2015 – 2018 |
| Ling Dang (Computer Science; Advisor: Jeff Offutt) | 2015 – 2017 |

*Student Advising*

PhD, MS AIT, MS DAEN, and BS IT students
(one of the most often requested advisors at IST)

## Service

*Departmental Level*

Chair, IST Graduate Studies Committee (2016 – present)
Chair, Academic Program Review (APR) Committee (2021 – 2023)
Member, Department of IST Admin Search (2021 – 2022)
Chair, Graduate Coordinator and Advisor Search Committee (2021-2022)
Chair, IST MS AIT Admissions Committee (2016 – present)
Co-Chair, Joint MS INFT Program Development Committee (2020 – 2021)
Member, Department of IST Term Search Committee (2020 – 2021)
Member, Department of IST Chair Search Committee (2019 – 2020)
Member, Department of IST Tenure-track/Tenured Faculty Search Committee (2018)
Chair, Department of IST Tenure-track/Tenured Faculty Search Committee (2017)
Chair, Department of IST Tenure-track/Tenured Faculty Search Committee (2016)
Member, Department of IST Term Faculty Search Committee (2016)
OSCAR Representative for IST (2015 – present)
IST Library Liaison (2015 – present)
Coordinator, Department of IST ABET Committee (2008 – 2015)
Co-Chair, Department of AIT Adjunct Search Committee (2014)
Member, Department of AIT Distance Education Committee (2013 – 2014)
Member, NVCC Articulation Committee (2008 – 2015)
Member, Department of AIT Tenured Faculty Search Committee (2013)
Member, Department of AIT Term Faculty Search Committee (2012)
Member, Department of Statistics: Developing QR Assessment Testing (2008)
Member, Department of Statistics Faculty Search Position (2006, 2008)

*School Level*

Member, SoC Graduate Studies Committee (2016 – present)
Member, Reduction of Credits and Transfer of Credits Graduate Council subcommittee (2021 – 2022)
Co-Chair, Master of Computing Task Force (2020 – present)
Member, Mason Engineering Online Committee (2020 – present)
Member, MicroCredentials Working Group (2020 – present)

Chair, Office of Graduate Academic Affairs Senior Director Search Committee (2019 – 2020)
Member, Department of SEOR Term Faculty Search Committee (2019 – 2020)
Member, VSE Computing Resources Linux and Database Administrator Search Committee (2017)
Panel Member, GMU-Oracle Big Data Symposium (2016)
Member, MS Data Analytics Engineering Program Steering Committee (2016 – present)
Member, Department of Bioengineering Faculty Search Committee (2010)

*University Level*

Member, PhD and MS Transfer Credit Committee (2021 – 2023)
Member, Mason Teaching Excellence Award Committee (2021 – 2022)
Member, Global+ Task Force (2021 – 2022)
Member, Adult Learning and Executive Education Committee (2020 – 2022)
Co-Chair, American Council on Education's Internationalization Laboratory Steering Committee – Curriculum Development (2019 – 2021)
Member, Computing Graduate Education Working Group (2019 – 2020)
Co-coordinator, Faculty Learning Community on Teaching and Learning Databases (2019 – 2020)
Member, GMU Center of Teaching and Faculty Excellence, Active Learning Technology Group (2013 – 2018)
Member, GMU Distance Education Council (2015 – 2018)
Member, Teaching Inquiry Group (2015 – present)
Member, Learning Analytics Focus Group (2015 – 2016)
Member, Active Learning Group (2014 – 2016)
Member, Center for Global Studies, Global Collaborative Classroom Initiative Committee (2015)
Member, Distance Education (DE) Advisory Group (2012 – 2013)
Member, GMU Cross-Disciplinary Committee (2008)

*Professional*

Member, Council on Undergraduate Research (CUR)
Member, The Virginia Society for Technology in Education (VSTE)
Member, Special Interest Group for Information Technology Education (ACM/SIGITE)

## Publications

### Journal Articles

Rytikova, I. (2002). Classification of the Decision-Making Methodologies and Their Applications in Metallurgical Industry, *Journal of Science and Technology "Electrometallurgy"*, March issue, Russia

Rytikova, I. (2002). Knowledge Integration and Its Representation in Operations Management Software Training Systems, *Integral – Journal of Science and Practice*, January issue, Russia

### Book Chapters

Prokopchuk, Y., & Rytikova, I. (1999). Introduction to Graph Theory. *Discrete Mathematics*. Technological University Press, Russia

Prokopchuk, Y., & Rytikova, I. (1999). Types of Graphs. *Discrete Mathematics*. Technological University Press, Russia

Komissar, E., Prokopchuk, Y. & Rytikova, I. (1999). Graph Properties. *Discrete Mathematics*. Technological University Press, Russia

Bulhov, N., Prokopchuk, Y., & Rytikova, I. (1999). Types of Matrices Associated with a Graph. *Discrete Mathematics.* Technological University Press, Russia

**Conference Proceedings**

Smucny, D., Rytikova, I., Dodman, S., Evmenova, A., Chung, Y., Ahmad, A., McCarron, G. (2022). Online Teaching Excellence Panel: Tips and Best Practices from OTEA Winners. In *Proceedings of the 2022 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 30, 2022

Rytikova, I., Foxwell, H., Baldo, J., & Boicu, M. (2020). Developing and Validating Learning Modules for Strengthening MS Graduates' Applied Research Skills. In *Proceedings of the 2020 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 24, 2020 (showcase session)

Rytikova, I., Vasilyeva, I., & Boicu, M. (2018). Introducing Research to Students Through Ready-to-Use Bb Modules. In *Proceedings of the 2018 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 14, 2018

Olimpiew, E., Rytikova, I., & Boicu, M. (2018). Emotions Impact on Learning. In *Proceedings of the 2018 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 14, 2018 (poster session)

Pelluru[1], P., Olson[1], S., Rytikova, I., & Boicu, M. (2018). Involving Undergraduate Students in Curriculum Development. In *Proceedings of the 2018 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 14, 2018 (poster session)

Boicu, M., Rytikova, I., Poms, L., Nelson, J., Peixoto, N., Sherry, L., & Tecuci, G. (2016). Teaching Strategies for Nourishing Creativity and Innovation. In *Proceedings of the 2016 Innovations in Teaching & Learning (ITL) conference,* "*The Science of Learning: Using Research to Improve Teaching*", George Mason University, Fairfax, Virginia, September 16, 2016

Holland, C., Pallay, K., Rosecrans, J.E., & Rytikova, I. (2016). The Freedom to Teach: Using Open Educational Resources in Your Courses. In *Proceedings of the 2016 Innovations in Teaching & Learning (ITL) conference,* "*The Science of Learning: Using Research to Improve Teaching*", George Mason University, Fairfax, Virginia, September 16, 2016

Olson[1], S., Rytikova, I., Winston, T., & Boicu, M. (2016). Creating the Research and Innovation Ecosystem. In *Proceedings of the 2016 Innovations in Teaching & Learning (ITL) conference,* "*The Science of Learning: Using Research to Improve Teaching*", George Mason University, Fairfax, Virginia, September 16, 2016 (poster session)

Nord, J., Samaras, A., Ericson, R., Ikonomidou, V., Rytikova, I., Sachs, R., Schwebach, J., Nelson, J., & Gerasimova[1], D. (2016). Teaching as a Creative and Learning Process. In *Proceedings of the 2016 Innovations in Teaching & Learning (ITL) conference,* "*The Science of Learning: Using Research to Improve Teaching*", George Mason University, Fairfax, Virginia, September 16, 2016 (poster session)

[1] An author is a student who worked on research projects in my lab or through collaboration with other research groups.

Rytikova, I., & Boicu, M. (2015). Learning Is Fun! Wait … STEM Learning? In *Proceedings of the 2015 Innovations in Teaching & Learning (ITL) conference,* "*The Science of Learning: Using Research to Improve Teaching*", George Mason University, Fairfax, Virginia, September 18, 2015

Rytikova, I., & Boicu, M. (2014). A Methodology for Personalized Competency-based Learning in Undergraduate Courses. In *Proceedings of the 15th Annual Conference on Information Technology Education and the 3rd Annual Conference on Research in Information Technology,* pp. 81-86, Atlanta, Georgia, October 15 – 18, 2014

Rytikova, I. (2002). Intelligent Expert Training Systems in Education. In *Proceedings of the IX International Conference "Mathematics. Computer. Education."* Dubna, Russia, January 28 — February 2, 2002

Fomin, S., & Rytikova, I. (2002). Mathematical Modeling of the Decision-making Process in Dynamic Performance Management Systems in Metallurgy. In *Proceedings of the IX International Conference "Mathematics. Computer. Education."* Dubna, Russia, January 28 — February 2, 2002

Rytikova, I., & Emeliyanov, N. (2002). Decision-making Process Based on a Fuzzy Model in a Complex Industrial System. In *Proceedings of Institute for Systems Analysis of Russian Academy of Sciences (ISA RAS)*, July 21, 2002, Russia

Rytikova, I., & Fomin, S. (1999). Defining a Model of an Integrated Computer System for Operations Management of a Large Industrial Complex. In *Information Technology in Metallurgy and Economics*, 4th vol., Russia, 1999

Rytikova, I., & Fomin, S. (1999). Optimizing a Decision-making Methodology in Operations Management for Large Industrial Complexes. In *Periodic series of the Research Institute of the University of Education*, 2nd vol., Russia 1999

Rytikova, I., & Fomin, S. (1999). Decision-making Under Uncertainty in Operations Management. In *Proceeding of the Sixth Symposium "Advances in the System of Education in Russia"*, June 15, 1999

## Presentations

Rytikova, I., Boicu, M. (2020). Workshop: Active Learning Strategies for Online Teaching: from lesson plan to program development. *2020 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 21 – 25, 2020 (DOI: https://doi.org/10.13021/itlcp.2020.2756)

Foxwell, H., Baldo, J, & Rytikova, I. (2019). Big Data Analytics Curriculum Design, Development, and Delivery. Presented at the *7th Big Data and Analytics EdCon*, College Park Marriott, Adelphi, Maryland, June 3 – 4, 2019

Rytikova, I. (2019). Scientific Writing in Information Technology. Presented at the Writing Center and Writing Across the Curriculum, George Mason University, Fairfax, Virginia, March 21, 2019

Rytikova, I. (2017). Re-Engaging/Re-Energizing Your Students. Presented at the seminar series "*Faculty Conversations about Teaching"*, Office of Distance Education and Center for Teaching & Faculty Excellence, George Mason University, Fairfax, Virginia, March 9, 2017

Rytikova, I. (2016). Personalizing Students' Learning Experience Through Open Educational Resources. Presented at the *1st Open VA webinar*, Tidewater Community College, Chesapeake, Virginia, April 15, 2016

Olson[1], S., Ha[1], T., Rytikova, I., & Boicu, M. (2016). Investigating Space Testing Effectiveness in Undergraduate Database Courses. Presented at the *2016 Lilly International Conference "Evidence-Based Teaching & Learning"*, Bethesda, Virginia, June 4, 2016 (interactive session)

Rytikova, I. (2016). Big Data in Healthcare: Challenges and Opportunities. Presented at the *2016 Oracle GMU Big Data Symposium* "*Breakthroughs in Big Data Analytics in the Public Sector"*, George Mason University, Fairfax, Virginia, January 7, 2016

Olson[1], S., Ha[1], T., Rytikova, I., & Boicu, M. (2016). Big Ideas from Big Data: Data-Driven Educational Ecosystem. Presented at the *2016 Oracle GMU Big Data Symposium* "*Breakthroughs in Big Data Analytics in the Public Sector"*, George Mason University, Fairfax, Virginia, January 7, 2016 (poster)

Rytikova, I. (2015). Making It All Work. Presented at the *National Forum on Active Learning Classrooms*, Minneapolis, Minnesota, August 5 – 7, 2015

Rytikova, I. (2015). Classroom Management in Active Learning Classrooms. Presented at the workshop "*Making the Most of Your Active Learning Classroom*", Center for Teaching & Faculty Excellence, George Mason University, Fairfax, Virginia, June 3, 2015

Rytikova, I. (2015). Is It All Just About Feedback? Presented at the seminar series "*Faculty Development Lunch and Learn: Knowing what your students are learning"*, Office of Distance Education, Center for Teaching & Faculty Excellence, and Learning Support Services, George Mason University, Fairfax, Virginia, April 8, 2015

Rytikova, I., & Boicu, M. (2014). Designing Active Learning Experience for Undergraduate Students. Presented at the seminar series "*Discipline Based Education Research (DBER)"*, STEM Accelerated program, George Mason University, Fairfax, Virginia, September 30, 2014

Rytikova, I. (2013). Competency-based Modular Approach in AIT database courses. Presented at the workshop "*Mason Life-long Learning*" at George Mason University, Fairfax, Virginia, November 1, 2013

Rytikova, I. (2000). Review and Analysis of the Modern Software Solutions for Quality Control Management in Metallurgical Industry. Presented at the *National Forum on Cross-Industrial Economic Cooperation*, Russia, Moscow, July 01, 2000

Rytikova, I. (2000). Quality Control Optimization: Theory, Strategies, and Implementation. *Industrial Economics Symposium*, Russia, Moscow, August 25, 2000

Rytikova, I. (1999). Training session: An Integrated Computer System for Operations Management Optimization of a Large Industrial Complex. *Research Institute of Higher Education*, Russia, Moscow, January, 1999

Rytikova, I. (1999). Pros and Cons of Artificial Intelligence Components in Software Solutions in the Metallurgical Industry. Presented at the *1st Artificial Intelligence Workshop*, *Technological University*, May 01, 1999

Rytikova, I. (1999). Real-time Data Processing in Operations Management Expert Systems. Presented at the *Moscow Power Engineering Institute*, Russia, Moscow, November 12, 1999

## Invited Talks

Rytikova, I. (2020). Innovation in Higher Education in the United States. American Councils for International Education, Higher Education Programs, Washington, DC, January 10, 2020

Rytikova, I. (2017). Advances in the Cognitive and Learning Sciences and Digital Learning. Presented at a two-week professional development program "*Life-Long Learning in the Digital University of the 21st Century*", American Councils for International Education, Higher Education Programs, Washington, DC, November 25, 2017

Rytikova, I. (2016). Big Data Educational Ecosystem. Presented at the *Doris. B. Yingling Lectureship* series, VCU School of Nursing, Virginia Commonwealth University, Richmond, Virginia, May 19, 2016

Rytikova, I. (2014). Big Data in Higher Education: Developing a Student Profile. Presented at the workshop "*Advancing Engineering Education"*, National University of Science and Technology, Moscow, Russia, January 12, 2014

## Research Conferences, Labs, and Workshops Organized

Rytikova, I., Boicu, M. (2020). Workshop: Active Learning Strategies for Online Teaching: from lesson plan to program development. *2020 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 21 – 25, 2020 (DOI: https://doi.org/10.13021/itlcp.2020.2756)

Rytikova, I., Vasilyeva, I., & Boicu, M. (2018). Workshop: Introducing Research to Students Through Ready-to-Use Bb Modules. *2018 Innovations in Teaching & Learning (ITL) conference*, George Mason University, Fairfax, Virginia, September 14, 2018

Rytikova, I. (2017). Workshop: Advances in the Cognitive and Learning Sciences and Digital Learning. Two-week professional development program "*Life-Long Learning in the Digital University of the 21st Century*", American Councils for International Education, Higher Education Programs, Washington, DC, November 25 - December 8, 2017

Rytikova, I., & Boicu, M. (2014). Customizing Higher Education: Competency-based Personalized Learning. *Workshop series "Mason Life-long Learning"*, George Mason University, Fairfax, Virginia, September 30, 2014

Rytikova, I. (2014). Workshop: Advancing Engineering Education. National University of Science and Technology, Russia, January 12, 2014

Rytikova, I., & Boicu, M. (2013). Research Lab: *Personalized Learning in Applied Information Technology*. George Mason University, Fairfax, Virginia, 2013

## Book Reviews

*Database Systems* by P. Rob, 9th edition, Course Technology Cengage Learning, 2009

*Introduction to Statistics Course and Textbook Review*, McGraw-Hill Higher Education, 2009

*Modern Database Management* by J. Hoofer, M. Prescott, H. Topi, 9th edition, Pearson Prentice Hall, 2008

*Database Processing* by D. Kroenke, 11th edition, Pearson Prentice Hall, 2008

## Professional Collaboration

| | |
|---|---|
| **American Councils for International Education, Higher Education Programs**, Washington, DC | 20017 – present |
| **Micron,** Manassas, VA | 2009 – 2011 |
| **INOVA,** Fairfax, VA | 2009 – 2010 |
| ***Vision* Networks Inc.,** Fairfax, VA | 2009 – 2010 |
| **Artefact, LLC,** Herndon, VA | 2005 – 2009 |

## Professional Education

| | |
|---|---|
| Mason Leadership Legacy Program | 2020-2021 |
| IBM Applied AI Professional Certificate (MOOC) | 2020 – 2021 |
| GMU Faculty Learning Community on Teaching and Learning Databases | 2019 |
| Azure Machine Leanring (MOOC) | 2018 |
| Writing in the Sciences, Stanford (MOOC) | 2018 |
| GMU Social Media Management and Information Visualization Tools | 2016 |
| GMU OSCAR Curriculum Development Scholarship Development Grant Workshop | 2016, 2017 |
| GMU Active Learning Classroom Workshop | 2015, 2016 |
| GMU Writing Across the Curriculum Faculty Retreat | 2015 |
| Sloan-C Workshop: Using Online Learning Strategically to Improve Educational Quality | 2013 |
| EMC Educational services: Information Storage and Management Optimization | 2010 |

## Community Connections

| | |
|---|---|
| Mentor, Oakton High School Multi-year Capstone Project (1 team) | 2014 |