

**CURRICULUM VITAE**  
**for**  
**Judy M. Munshower**

**e-mail Address:** [Judy.Munshower@Clarke.edu](mailto:Judy.Munshower@Clarke.edu)

**Graduate Education:** - Ph.D., Mathematics, Washington University in St. Louis, 1997  
Steven G. Krantz, advisor; *The de Rham Complex on Unbounded Domains with Sobolev Space Topology*

- M.A., Mathematics, Washington University in St. Louis, 1994

**Undergraduate Education:** - B.A., Mathematics, College of St. Benedict, St. Joseph, MN, 1991

**Licensure:** - (K – 12) Substitute Authorization, Iowa BoEE, Folder Number 1107782;  
Expiration Date: 10/31/2025

**Academic Positions:** - Professor, Clarke University, 2015 – present  
- Chair, Computer Science Department, Clarke University, 2014 – 2016  
- Chair, Mathematics Department, Clarke University, 2002 – 2005, 2008 – 2013  
- Associate Professor, Clarke University, 2008 - 2015  
- Assistant Professor, Clarke College, 2001 – 2008  
- Assistant Professor, Avila College, 1997 – 2001  
- Adjunct Instructor, Maryville University, 1994 – 1996  
- Instructor, Washington University, Summers, 1994 and 1996  
- Teaching Assistant, Washington University, 1992 – 1997  
- Teaching Assistant, College of St. Benedict, 1988 – 1991

**Courses Taught for Clarke University:** - Compass Navigator: Transfer / Non-Traditional Students  
- Compass Navigator: 1<sup>st</sup> Year Seminar  
- Internship (for math and for computer science)  
- Calculus 1  
- Calculus 2  
- Elementary Algebra  
- Probability  
- Capstone  
- Linear Algebra  
- Precalculus with Algebra  
- Foundations of Mathematics 2  
- Probability and Statistics  
- Calculus 3  
- Foundations of Mathematics 1  
- Math as a Liberal Art

- Abstract Algebra
- Intermediate Algebra
- Statistics
- Number Theory
- Differential Equations (as an Independent Study)

**Professional Organizations:**

- Mathematical Association of America (MAA)
- National Council for Teachers in Mathematics (NCTM) (through Jan, 2018)
- Global GeoGebra Institute Network (GGIN)

**Publications:**

- Contributor, *I, Mathematician II* (by invitation of Dr. Steven G. Krantz). COMAP, Inc., ISBN: 1-933223-99-5; 2016
- *Genetic Mutations Affecting the Success and Failure of HIV Regimens*, with co-authors George Towfic, Samira Kettoola, Fadi Towfic, Frank Graziano, John Viner, and Helena Tsotsis, *Journal of Proteomics & Bioinformatics*, Vol. 2.9, 2009.
- *The de Rham Complex on Unbounded Domains with Sobolev Space Topology*, *Journal of Mathematical Analysis and Applications*, Vol. 338, Number 1, February 1, 2008
- *Effect of Spatial Distribution of T-Cells and HIV Load on HIV Progression*, with co-authors Frank M. Graziano, Samira Y. Kettoola, Jack T. Stapleton, and George J. Towfic, *Bioninformatics* 24(6):855-860 (2008)
- Contributor, *Community Notes*, Presentation Sisters of the Blessed Virgin Mary, annually
- Reviewed statistics manuscript, in coordination with Fred Grayson, American BookWorks Corporation (2002 – 2004)
- Contributing Author, *Comprehensive Dictionary of Mathematics*, Stan Gibilisco, Editor-in-Chief. CRC Press (2003)
- *Turning Triangles into Circles*, Pi Mu Epsilon, 1991

**Presentations:**

- “Alternative Grading Strategies: Why should I use them in my classroom?”, with Andrea Bixler and Melissa DeMotta, CU Conference, August 16, 2023
- “Can Grading Be Win-Win?”, ICTCM, Orlando, FL, March 25, 2022
- “Can Grading Be Win-Win?”, Books, Bytes, Brilliance, Clarke University, April 11, 2022
- “Can Grading Be Win-Win?”, Opening Workshops, Clarke University, August 17, 2022
- CU Panel: Let’s Share COOL Takeaways, CU Virtual Conference, August 19, 2020
- “Using *GeoGebra* Book in Multi-Variable Calculus”, ICTCM, Washington, DC, March 16, 2018
- Math Teaching Circle, Loras College, February 9, 2017
- “Faculty Portfolio Development Workshop” Clarke University, May 15, 2017
- “Faculty Portfolio Development Workshop” Clarke University, April 25, 2017
- “Being a Peer Reviewer” Clarke University, April 3, 2017

- “New Faculty Presentation on Evaluation” Clarke University, October 7, 2016
- “Conservation Biology and Math” Clarke University STEM Day, September 26, 2015 with Andy Bixler
- “Using Databases to Explore Medical Topics” Clarke University STEM Day, September 26, 2015 with George Towfic and Michael Dempewolf
- “Using Databases to Explore Medical Topics” Clarke University STEM Day, September 20, 2014 with George Towfic
- “Revising Calculus 3 to Incorporate GeoGebra”, Books, Bytes and Brilliance, Clarke University, February 20, 2015
- “Using GeoGebra in MultiVariable Calculus” International Conference on Technology in Collegiate Mathematics, San Antonio, TX, March 22, 2014
- “Faculty Portfolio Development Workshop” Clarke University, April 11, 2014
- “Conservation Biology and Math” Clarke University STEM Day, October 1, 2012 with Andy Bixler
- “Teaching with LiveScribe, Acrobat and Camtasia” Title III Presentation, Clarke University, April 10, 2012 (two presentations) with Amanda Matson and Sean Bradley
- “Conservation Biology and Math” Clarke University STEM Day, October 1, 2011 with Andy Bixler
- “Some Amazing Sums,” Bi-State Math Colloquium, Loras College, November 5, 2010
- “Conservation Biology and Math” Clarke University STEM Day for teachers, March 18, 2010 with Andy Bixler
- “Conservation Biology and Math” Clarke University STEM Day, September 19, 2009 with Andy Bixler
- “What Size Is Infinity?” Mathematics Capstone, Clarke College, October, 2006 and August, 2008
- “Euler’s Sum” Mathematics Capstone, Clarke College, September, 2007
- “Is 29 a Prime Number?” Mathematics Capstone, Clarke College, October, 2005
- Brown bag lunch presentation on summer research, April 2005
- “Can You *Hear* the Area of a Drum?” University of Missouri, Kansas City, Fall, 1999

**Conferences and Workshops:**

**National:**

- The Grading Conference, Online, June 9 – 10, 2023
- The Grading Conference, Online, June 3 - 4, 2022
- ICTCM Conference (on technology and math), Orlando, FL, March 24-25, 2022
- MAA mini-course on math support classes: planning and design, Online, November 2, 2021
- Mastery Grading Conferences: University STEM Focus, Online, June 11 – 12, 2021
- REMOTE: The Connected Faculty Summit, July 13 – 14, 2020
- COOL (Camp Operation Online Learning), June 1 – July 10, 2020

- ICTCM Conference (on technology and math) (Washington, DC, March 15 – 18, 2018)
- ICTCM Conference (on technology and math) (Chicago, IL, March 10 – 12, 2017)
- ICTCM Conference (on technology and math) (San Antonio, TX, March 20 – 23, 2014)
- GeoGebra Workshop (Miami University, Oxford OH, August 3-4, 2013)
- ICTCM Conference (on technology and math) (Boston, March 21 – 24, 2013)
- Statistical, Computational and Visualization Methods in Medical Informatics Conference (Clarke University, June 3-4, 2011) Organized and hosted
- ICTCM Conference (on technology and math) (Chicago, March 12 – 14, 2010)
- Audio conference Inside Higher Ed’s – ‘ Expanding the Science Teacher Pipeline’ February 18, 2009
- “Abandoning Dead Ends: Presenting the Heart of Mathematic to All Students,” University of Texas at Austin, May 21 – 23, 2007 (Chatauqua Workshop for faculty who teach Math as a Liberal Art)

**Regional:**

- Iowa Section of the Mathematical Association of America, Online, October 9, 2021
- 2015 Conference on Ethics in Higher Education, University of Northern Iowa, September 18, 2015
- Iowa Section of the Mathematical Association of America, Clarke University, October 24-25, 2014
- Iowa Section of the Mathematical Association of America, Central College, October 21-22, 2011
- Nebraska Conference for Undergraduate Women in Mathematics, Lincoln, NE, Feb 1 – 3, 2008 (supervised four math students)
- Nebraska Conference for Undergraduate Women in Mathematics, Lincoln, NE, Feb 9 – 11, 2007 (supervised four math students)
- Nebraska Conference for Undergraduate Women in Mathematics, Lincoln, NE, Feb 3 – 5, 2006 (supervised two math students)
- Bi-State Math Colloquia, Loras College, 2010 – present (once or twice per month during academic year)
- Iowa Section of the Mathematical Association of America, April 1-2, 2005, Central College

**Clarke:**

- “How to Find Grant Opportunities” Clarke University, Tara Velez, Feb 26, 2014
- “How to Implement Brain-Based Learning Strategies in Your Courses” Clarke University, March 7, 2014
- C21 Exploring the Catholic Intellectual Tradition, Clarke University, March 9 – April 4, 2014
- May 2013 Workshops (Moodle and TurnItIn)
- Webinar “Active Learning that Works: What Students Think” Sherri Post May 10, 2012

- May 2011 Workshops (on Moodle Migration)
- May 2010 Workshops (on Blackboard, Shared On-Line Video, and Jing and Voice Thread)
- STEM Day meetings, 2009 - 2013
- Coordinated Mathematica Talk, March 25, 2009
- May 2007 Workshops (Blackboard)
- E-Advising pilot workshop, February 26, 2007
- May 2006 Workshops (“Teaching with Audio” and “Teaching with Adobe Acrobat”)
- “How to Strengthen Advising to Increase Student Success and Retention”, April 4, 2006
- “Teaching and Assessing Thinking Skills” (Interactive Audio Conference), Nov 9, 2005
- May 2005 Workshops (on rubrics)
- December 2004 Workshops (“Word Tips and Tricks” and “Netstorage and Groupwise”)
- Clarke College First Annual Title III Open (Assessments and Outcomes), May 11, 2004
- Assessment Conference at Alverno College, April 1, 2004
- MSP NSF Grant Meetings (MaryLou Caffery, Chair)
- Producer PT3 faculty development, May 14, 2003
- Iowa Section of the Mathematical Association of America, April 5, 2003, University of Northern Iowa
- Teaching Circle meetings, 2002 – 2006
- New faculty tenure process by S. Mary Lou Caffery, October 25, 2001

**Sabbatical:** “Incorporating *GeoGebra* into Calculus 3”, fall, 2017

- Grants Received:**
- Faculty Development Grant, Clarke University, Summer, 2021. “Mastery Grading in Calculus.”
  - Faculty Development Grant, Clarke University, April 2014. “Revising Calculus 3 to Incorporate GeoGebra”
  - Grow Iowa Values Found (GIVF) Grant, with George Towfic and Samira Towfic. Funding of \$84,721. The grant is for the design and implementation of an Iowa clinical ontology. Received notice of approval on February 4, 2010.
  - Grow Iowa Values Found (GIVF) Grant, with George Towfic and Samira Towfic. Funding of \$97K is for “Design and Implementation of a Web-Based HIV Analyses Library.”
  - Faculty Development Grant, Clarke College, April, 2007. To revise the course Math as a Liberal Art.
  - Faculty Development Grant, Clarke College, April, 2004. To purchase software necessary for extending Ph. D. thesis.
  - Maytag Grant (with George Towfic), May, 2004. We are modeling the number of uninfected cells as a function of time once the HIV virus has been contracted.

- Consulting:**
- Consultant with Holy Family regarding math readiness for college, 2022 - present
  - Consultant work with Leslie Backes (Clarke alum) and MWM Consulting firm (10 hours, October/November, 2007)
- Service:**
- Co-Liaison, Connections Institute, 2023 – present
  - Strategic Planning Initiative meetings, 2018 – 2019
  - Compass Revision Task Force, 2018 - 2020
  - Chair, Computer Science Department, 2014 – 2016
  - Advisor of CIS students
  - Participated in IDEA pilot for student engagement
  - Judged posters for Clarke Student Academic Conference, April 11, 2016
  - Sophomore/Junior Preview Day, April 28, 2012
  - STEM Day Faculty Coordinator (2010 – 2016)
  - Participated in the Pilot for Apple Laptop Computers
  - Participated in CORE week
  - Mentor of faculty members
  - Peer reviewer of faculty members
  - Observed student teacher
  - Advisor of math majors
  - Advisor of Senior Seminar students
  - Chair of Mathematics Department, 2002 – 2005, and 2008 – 2013
  - Participated in Iowa Private College Week; available for questions about the Science and Math Division to potential students, August, 2003 – 04, 2007 – 2011, 2013-2016
  - Mediated a formal student complaint (grade change), January, 2003
  - Organized tutors and their schedules
  - Spoke to potential students
  - Place first year students in appropriate math courses, 2003 and 2004
  - Presented at New Student Registration Workshops (CORE)
- Clarke University  
Committees Served:**
- Higher Learning Commission Subcommittee, Criterion 3, January 2022 - present
  - Build a Better Workplace Group, Summer 2021
  - Test Optional Working Group, 2021
  - Curriculum Advisory Committee, 2021 - present
  - Athletic Advisory Committee, spring 2018 - present
  - Program Review Subcommittee for Nursing Department, spring 2017
  - Chair, Computer Science Hiring Committee, fall, 2014 – fall, 2015
  - Chair, Academic Integrity Board, 2013 – January, 2018
  - Academic Integrity Board member, spring, 2018
  - Faculty Personnel Board, 2012 – 2014, 2015 – 2017, 2020 – 2022, 2023 - present
  - Chair, Faculty Personnel Board, 2013 – 2014, 2016 - 2017
  - Higher Learning Commission Subcommittee, Criterion II, January, 2012 – November, 2013
  - Faculty Policy Committee, 2011 – 2015, 2016 - 2018

- Education Advisory Committee, 2009 – present
- Chair, Educational Policy Committee, 2008 – 2011
- Educational Policy Committee, 2007 – 2011
- BAS in Supervision and Leadership Task Force, 2008
- Mathematics Hiring Committee (Chair), 2009
- Benefits Committee, Spring 2007
- Human Resources Officer Hiring Committee, Spring 2007
- Clarke Faculty and Staff Leadership Committee (Team Leader for Faculty/Staff Campaign), 2005 and 2006
- Creative Ideas Task Force (first three weeks only), Fall 2005
- Faculty Policy Committee, Chair, 2005 – 2007
- Capstone Subcommittee, Chair, Spring 2005
- Capstone Subcommittee, Clarke College, 2004 - 2005
- LATF, Clarke College, 2004 – 2006
- Faculty Policy Committee, Clarke College, 2003 – 2007
- Retention Committee, Clarke College, 2003 – 2005
- Math Proficiency Committee, Clarke College, 2002 – 2004
- Financial Aid/Scholarship Committee, 2004 – 2006
- SIPS Subcommittee, 2004
- Meneve Dunham Committee, 2004, 2006, 2010
- Psychology Hiring Committee, 2002-2003
- Mathematics Hiring Committee (Two Positions), 2001-2002

- Community Service:**
- Member, St. Joseph the Worker Faith Formation Committee (2022 – present)
  - Screen operator, St. Joseph the Worker, 2022 – present
  - Member, St. Joseph the Worker Mission Committee (Chair of Babysitting Subcommittee), March 18, 19, and 20, 2012 (6-9 pm each night) (1.5 hour meetings in December, 2011, February and March 2012 and 3 hour retreat/meeting March 17, 2012)
  - Member, Associate Partnership Advisory Committee for PBVM, 2004 - 2010
  - Associate of the Sisters of the Presentation of the Blessed Virgin Mary (PBVM), 2000 – present
  - Help organize Community Wide Charity Garage Sale for PBVM Associates and Sisters, each April 2005 - 2016 (all monies go to charities)
  - Help organize and lead First Communion Retreat, St. Joe the Worker, March-April 2011 and March 2014
  - Help organize and lead a session for Vacation Bible School, St. Joe the Worker, July, 2010 – present
  - Volunteer (and Chair) for Octoberfest Candy and Pop Wheel, St. Joe the Worker, 2014 - present
  - Help organize Prayer for Peace (War with Iraq), March, 2003
  - Volunteer at Lantern Center, Dubuque
  - Help provide meal for Hope House, December, 2004, and September, 2007
  - Member (and Treasurer) of St. Joseph the Worker Parent Association, 2006-2007
  - Member of St. Joseph the Worker Parish

- Presider at Children's Liturgy for St. Joseph the Worker Parish, 2007 – 2019
- Girl Scout Leader, 2015 – 2017