Curriculum vitae

Jeanine Meyer
Professor Emerita
Purchase College, State University of New York
      Mathematics/Computer Sciences (past **Board of Study Coordinator**)
      School of Natural and Social Sciences

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Education

The College, University of Chicago, S.B. Mathematics, Magna cum Laude, 1967

Columbia University, M.A., Mathematics, Sigma Xi, 1968

The Courant Institute of Mathematical Sciences, New York University, Ph.D. Computer Science, 1980

Previous Employment

Associate Professor and
Director, Computer Information Systems 101
Information Systems Department
School of Computer Science and Information Systems
Pace University, New York City and Pleasantville Campuses
1993-2001

Research Consultant (EduQuest),
2nd Level Manager, Manager and Research Staff Member.
(IBM Research)
 IBM Corporation
1977-1993

Books

- **The Essential Guide to HTML5: Using Games to learn HTML5 and JavaScript**, 2nd Edition, Apress/Springer, 2018, 3rd Edition, 2022.
- **Programming 101**, Apress/Springer, June 2018, 2nd Edition, 2022.
- **Origami with Explanations**, with Takashi Mukoda, World Scientific Publishing, Fall 2020
- **More Origami with Explanations**, with Takashi Mukoda, World Scientific Publishing, Fall 2020
- **HTML5 and JavaScript Projects**, 2nd Edition, Apress, 2018.
- **Elementary Number Theory with Programming**, with Marty Lewinter, Wiley, May, 2015.
- **HTML5 and JavaScript Projects**, Apress, 2011.

- **The Essential Guide to HTML5: Using Games to learn HTML5 and JavaScript**, FriendsofEd/Apress, 2010.
- **Beginning Scripting Through Game Creation**, Cengage Learning, 2008
- **Creating Web Databases with PHP and ASP**, Charles River Media, 2003.
- **MS Visual Basic 6.0 Games Programming**, with Catherine Dwyer, Course Technology, April 16, 2001.
- **Multimedia for the Classroom**, with Palmer Agnew and Anne Kellerman, Allyn and Bacon, January, 1996

Conferences and Articles (refereed)

- *Lessons in teaching an origami gen-ed math course pre- and during the pandemic,* **MathFest 2022**, Mathematical Association of America, Philadelphia, PA, August 5, 2022.
- *Origami as a General Education Math course: Before and During a Pandemic.* Academia Letters, Article 245. https://doi.org/10.20935/AL245.
- *An origami-inspired adventure in number theory and limits*, Research track, **Mathematics of Various Entertaining Subjects (MOVES)** Conference hosted by the National Museum of Mathematics in New York City, August 4-6., 2019.
- *First Lesson: Frog jumps into box*, Family activity track, **Mathematics of Various Entertaining Subjects (MOVES)** conference hosted by the National Museum of Mathematics in New York City, August 4-6., 2019.
- *Creating Directions for Origami using HTML5*, **Seventh Origami Science, Maths, Education Conference**, Oxford, UK, September 5-7, 2018.
- *First Lessons in Origami (with Mathematics)*, Session on Origami in the K-12 Classroom, **Joint Mathematics Meetings**, Seattle January 5-9, 2016.
- with Catherine Dwyer, *Improving Quantitative Reasoning through the Analysis of News Stories*, **International Journal of Learning**, Volume 12, Issue 6, Common Ground Publishing, July, 2006.
- with Catherine Dwyer, *Identifying Effective Structural Dimensions for Course Portals*, **International Journal of Learning**, Volume 12, Issue 6, Common Ground Publishing, July, 2006.
- *Virtual Pet: An Exercise in XML & XSLT*, **The Journal of Computing Sciences in Colleges, Proceedings of the Ninth Annual CCSC Northeastern Conference**, Schenectady, NY, April 23-24, 2004.
- with Michael Conry, *Design and implementation of a new course: Creating Databases for Web applications*, **Consortium for Computing in Small Colleges: Northeastern Region Conference**, Worcester, MA, April 19-20, 2002.
- with Stuart Varden, *Surveying Students about Computing: Results of a Two-Year Study,* **Proceedings of ISECON'2000**, November, 2000, Philadelphia.
- with Cathy Dwyer, *A case study on programming using games*, **Proceedings of ISECON'2000**, November, 2000, Philadelphia.
- with Sandra Flank, *Teaching Teachers to Use Multimedia Tools: One University's approach*, The Society for Information Technology & Teacher Education **SITE 2000**, San Diego, CA, February 8-12, 2000
- with Karen Berger, *Successful E-commerce: Achieving Synergy Between Marketing and Technology*, chapter in the **2000 Handbook of Business Strategy**, Faulkner &

Gray, Publishers.

- with Martha Driver, *Beowulf to Lear: Text, Image and Hypertext*, **Literary and Linguistic Computing,** Vol. 14, No. 2**,** pp. 223-235, Oxford University Press, 1999
- with Linda Anstendig and Martha Driver, *Web Research and Hypermedia: Tools for Engaged Learning,* **Journal of Excellence in College Teaching,** 9(2), 69-91, November, 1999.
- with Daniel Meyer, *Teaching Mathematical Thinking Through Origami,* **Proceedings of the Second Annual Bridges Conference: Mathematical Connections in Art, Music and Science**, July 30-August 1, 1999, Winfield, KS
- based on the course done with Dr. Karen Berger, focusing on the use of on-line conferencing, paper and presentation: *On-line Conferencing in a Marketing Course,* **Proceedings of The Ninth Biennial World Marketing Congress,** Malta, June 26, 1999.
- with Linda Anstendig, *Integrating Team Teaching, Team Work and Technology with Subject Matter*, **Lilly Conference on College & University Teaching**-- Atlantic, International Alliance of Teacher Scholars, Towson, MD, April 16-18.
- with Dr. Karen Berger, paper and presentation: *A course on using the Web for marketing: design and early reflections,* **WebNet'98**, Orlando, FL, Nov 11, 1998.
- with Stuart Varden, *A Profile of First Computing Course Students: New Insights and Their Implications for the Curriculum,* at **Proceedings of ISECON '98,** San Antonio, TX, October 16-18, 1998.
- with Linda Anstendig and Martha Driver, *Web Research and Hypermedia: Tools for Engaged Learning*, the Lilly Conference on Excellence in College Teaching, Oxford, Ohio, November 21, 1997.
- with Palmer Agnew, et al, *Experiences and conclusions on what and how to coach students in multimedia theory and multimedia creation in a variety of contexts*, **Proceedings of Ed-Media/Ed-Telecom 97**, Association for the Advancement of Computers in Education, June, 1997.
- with Robert Mack and Miriam Masullo, *Educational Multimedia: Perspective in Evolution*, on the CD for **Ed-Media/Ed-Telecom 97**, Association for the Advancement of Computers in Education, June, 1997.
- with John Molluzzo and Carol Wolf, *Evolution of a Core Computer Course*, **Proceedings of the Consortium for Computing in Small Colleges, Second Annual Northeastern Conference**, Boston, MA, April 25-26, 1997.
- with Stuart Varden, *Teaching Hypertext Markup Language in the First Computing Course: One University's Experience*, **Proceedings of ISECON'96**, DPMA Educational Foundation, October 18-20, 1996
- member of Working Group, *Interactive multimedia pedagogies*, **Proceedings of Conference on Integrating Technology into Computer Science Education**, ACM SIGCSE, SIGCSE Bulletin, Volume 28, Special Issue, 1996.
- *Classroom Origami*, **Proceedings of the Second Conference on Origami, Education and Therapy**, New York, June 1995.
- *Constructing Multimedia: Solutions for Education*, **Proceedings of the 34th International Conference of the Association for the Development of Computer-based Instructional Systems**, Norfolk, Virginia (November 1992).
- Several articles on robotics, manufacturing automation, and manufacturing strategies published between 1978 and 1990.

Articles, presentations, invited talks, online conferences

- *A Game and a Proof and A Challenge*, **MOVES**, National Museum of Mathematics and CUNY, New York, NY, August 8, 2022.
- *The Story That Never Dies*, **Mini-MOVES**, National Museum of Mathematics, New York, NY, February 20, 2022.
- Taught Philip Shen Basket, **Origami USA 2022 Convention**, New York, NY, June 25.
- *Origami in a College Math Course*, **Gathering for Gardner**, Atlanta, GA, April 7-10, 2022.
- *Building on Surprises and Mis-Conceptions*, **Association of Mathematics Teachers of New York State Virtual Annual Conference**, November 4, 2021.
- *Making the Dollar Bill Rosette*, **National Museum of Mathematics, Family Fridays,** October 15, 2021.
- *Making the Jumping Frog*, **National Museum of Mathematics, NYC Math Festival**, July 17, 2021.
- *An Origami-inspired Adventure in Limits and Number Theory*, **Foldeas**, May 1, 2021.
- *Origami in a Mathematics General Education Course*, **Association of Mathematics Teachers of New York State Virtual Annual Conference**, November 2, 2020.
- *Grandmother who Codes*, Processing Community Day NYC, February 9, 2019.
- *An Origami inspired adventure in Number Theory and Limits*, **Seventh Origami Science, Maths, Education Conference**, Oxford, UK, Workshop, September 5-7, 2018.
- *Making Origami the Focus of a General Education Math Course,* **Seventh Origami Science, Maths, Education Conference**, Oxford, UK, Workshop, September 5-7, 2018.
- *Origami and Math: We Fold Under Pressure*, workshop at **Explore Your Opportunities** conference sponsored by the Westchester Branch of the **American Association of University Women** and College of Mount Saint Vincent, March 16, 2013; April 12, 2014; March 21, 2015; April 16, 2016, April 1, 2017, April 14, 2018.
- Invited speaker: *Add to 15 game*, STEM Festival, Blind Brook Middle School, March 18, 2017.
- Invited speaker: *An origami inspired adventure in Number Theory…with limits*, **Math Circle**, Manhattanville College, February 1, 2017.
- Invited speaker: Mu Alpha Theta Mathematical Honor Society, Byram Hills High School, Armonk, April 19, 2016
- *Creating Elements and Moving Them Around*, html5hub.com, June 20, 2014.
- *How to Transform Pictures by Strokes of Mouse or Finger*, html5hub.com, August 30, 2013.
- *Making and Moving a Transparent Image*, **<jsmag> for JavaScript Professionals**, June 2013
- *Fade In and Fade Out,* **<jsmag> for JavaScript Professionals**, May 2013
- *Moving Pictures*, **<jsmag> for JavaScript Professionals**, April 2013

- *Creating a Jigsaw Game*, **<jsmag> for JavaScript professionals**, March 2013
- *Opening and Closing Windows*, **<jsmag> for JavaScript professionals**, February 2013
- *Chasing an Image*, **<jsmag> for JavaScript professionals**, January 2013.
- *Adding messages to a picture*, **<jsmag> for JavaScript professionals**, December 2012.
- *Playing What the Viewer Wants*, **<jsmag> for JavaScript professionals**, November 2012.
- *Checking on crossing a fence*, **<jsmag> for JavaScript Professionals**, October, 2012
- *Transitions from Image to Image,* **<jsmag> for JavaScript Professionals**, September, 2012
- *Dynamic Scalar Vector Graphics,* **<jsmag> for JavaScript Professionals**, August, 2012
- *Where am I: Now and Then—Geolocation, Google Maps API, and localStorage*, **<jsmag> for JavaScript Professionals**, July, 2012
- *Parametric Equations, Parallel Structures, Application States*, **<jsmag> for JavaScript Professionals**, June, 2012
- *Rotating Video and Other Tricks*, **<jsmag> for JavaScript Professionals**, May, 2012
- *Integrating Media into Sets of Applications*, **<jsmag> for JavaScript Professionals**, April, 2012.
- *PHP, JavaScript and the Google Maps API*, **PHP Solutions Magazine**, March, 2012.
- *Invited talk at STEM Lego Conference*, Pace University, May 14, 2011.
- *Teaching programming using games,* **Games in Engineering and Computer Science Education**, June, 2010
- *Explorations in Origami,* **Hawaii International Conference on Arts and Humanities,** January, 2008
- *Implementing a College Level Robotics Course,* **Robotics Educators Conference,** Butler, PA, August 16, 2007
- *Observations on Teaching Programming,* **Hawaii International Conference on Arts and Humanities,** January, 2007
- *Quantitative Reasoning for Humanities Students,* **Hawaii International Conference on Arts and Humanities**, January, 2006.
- *Quantitative Mis-Information: Learning the Importance of Quantitative Analytic Skills by Studying their Mis-application,* **Twelfth International Conference on Learning**, Granada, Spain, 1–14 Ꙃυλψ, 2005
- *Using Origami in an introductory programming Course*, **Conference on Origami, Education and Therapy**, New York City, June 29, 2004.
- with Aviva Meyer and Daniel Meyer, *Reflections on a Broken Heart* and *Computer Methods for producing (informal) Origami Directions* **3rd International Meeting on Origami, Science, Mathematics, and Education**, Asilomar, California, March 9-11, 2001.
- *Web Writing Opportunities: A Computer Specialist's Perspective*, **Conference on College Composition and Communication**, Denver, Colorado, March 14-17, 2001
- with Mike Gargano, *Computing across the curriculum*, Panel at **ISECON'2000**,

November, 2000, Philadelphia.

- co-chairing with Stuart Varden, *Dimensions of Distance Learning*, Report from Working Group at **ITICSE2000** Conference, July 10-15, 2000, Helsinki, **ACM**.
- with Linda Anstendig, *Students Join the Sacred Hoop: A Multimedia Approach to Selected 20th Century Native American Literary Works*, **2000 College English Association Conference**, Charleston, SC, April 6-8, 2000
- contributions to the **Pedagogical Patterns Project**, http://www-lifia.info.unlp.edu.ar/ppp/author.htm, February 18, 2000.
- with Martha Driver, *A literature course using web technology*, http://csis.pace.edu/~meyer/hawaii,featured in Conference Paper section of on- line, peer reviewed journal, **academic.writing**, premier issue, Jan/Feb 2000
- with Aviva Meyer and Daniel Meyer, *Teaching mathematical thinking through origami*, http://csis.pace.edu/~meyer/origami,featured in Conference Paper section of on-line, peer reviewed journal, **academic. writing**, premier issue, January/February 2000
- *Strategic Internet Marketing: a course taught with technology for marketing students*, part of a panel, *Electronic Commerce-Classroom Experiences*, **Fifteenth Annual Eastern Small College Computing Conference**, October 15-16, 1999, Olean, New York
- with Linda Anstendig and Gene Ritchie, *Transitions and Transformations: The Evolution of a Writing and Technology Across the Curriculum Program,* **Writing Across the Curriculum Fourth National Conference**, June 3-5, 1999, Ithaca, NY
- with Martha Driver, *Engaging students in literature and composition using Web Research & Student Constructed Web projects,* **Professional Development Online Conference,** April 21-23, 1999
- member of Working Group, *Development and use of multimedia and internet resources for a problem based learning environment,* at the **6ᵗʰ Annual Conference on the Teaching of Computing/3rd Annual Conference on Integrating Technology into Computer Science Education --ITiCSE '98**
- *Technology and Family: experiences using e-mail*, in session on *Balancing Career and Family*, **Second Annual Grace Murray Hopper Celebration of Women in Computing**, San Jose, CA, September, 1997.
- *Beowulf to King Lear: Text, Image and Hypertext*, Internet poster session, **National Education Computer Conference 97**, Seattle, WA. July 1, 1997.
- *Doing Research on the Web*, **National Education Computer Conference97**, Seattle, WA, June 30, 1997. See the National Schools Network newsletter for an informal discussion of the NECC talks.
- *Researching the Internet in a Writing Class: A Computer specialist's role*, **Conference on College Composition and Communications: Just Teaching Just Writing**, Phoenix, AZ, March 12-15, 1997.
- with Linda Anstendig, *An Interdisciplinary Approach to Researching the Internet*, **Sixth Annual Conference of the Institute for the Study of Postsecondary Pedagogy: Instructional Technology, Pedagogy and the Curriculum: Rethinking the Teaching and Learning Process**, SUNY/New Paltz, Mohonk Mountain House, New Paltz, New York, November 20-22, 1996
- member of panel, *Defining Multimedia Courses within a Computer Science Education*, **Proceedings of the Twenty-Seventh SIGCSE Technical**

Symposium of Computer Science Education, ACM SIGCSE, Philadelphia, Pennsylvania, February 15-18, 1996.
- with Linda Anstendig, *A Multimedia Approach to Writing about Literature*, **Conference on College Composition and Communication: Transcending Boundaries**, Milwaukee, WI, March 27-30, 1996.

Professional Memberships and Activities

- **Association of Women in Science**
- **Association of Computing Machinery**
- **OrigamiUSA**
- **Phi Beta Kappa**
- **Sigma Xi**