

John V. (Matt) Matthews

Contact

[REDACTED]

Career
Overview

Over 8 years of pragmatic, trusted, transparent leadership across university, college, & department levels, including responsibility for multiple cross-divisional teams. Creating solutions for faculty and staff through institutional vision, shared governance, academic rigor, collaboration, compassion, and data. Professor of Mathematics with over 18 years at UTC. Research record in applied mathematics, collaboration with engineering and physics. Highly-rated instructor.

Administrative
Experience

Vice Provost of Faculty Affairs & Academic Policy July 2018 – present
Academic Affairs, University of Tennessee at Chattanooga (UTC)

Highlights:

- Academic Affairs – programs, curriculum, policy
 - Supported new program development to respond to regional needs
 - Championed, implemented new undergraduate certificates
 - Created new flexibility for Bachelor of Arts programs
 - Student- and faculty-centered policies on grade appeals, academic/professional course delivery, more
 - Led cross-divisional team on course modality definitions, fees
- Faculty affairs – recruitment, retention, promotion, tenure, evaluation
 - Successfully managed processes for 400+ full-time faculty, all ranks
 - All faculty transitioned to single digital tool for annual review
 - Implemented post-tenure review with faculty governance support
 - Development and deployment of new non-tenure-track rank promotion
 - Advised on 4-year plan for \$1M/year in new faculty funding model
- Student Success – retention, graduation, state funding metrics
 - Led cross-division team on waitlist mitigation, reduced students left on waitlists by 50%+
 - Fostered online tutoring to supplement on-campus service
 - Division representative on CARE Team
- Institutional Duties – working across the institution
 - Co-chair of Campus Master Planning Steering Committee, guiding plan for next 10 years at UTC
 - Chair of campus-level policy review committee
 - Co-chair of COVID-19 Implementation Team, managing full campus response to pandemic (except campus health care)
 - Chair of Safety & Security Advisory Committee, bringing employees and students together to address campus concerns

Associate Dean June 2016 – June 2018

Mathematics, Science, and the Social Sciences, College of Arts & Sciences, UTC

Highlights:

- Academic affairs
 - New program and curriculum development, review
 - Innovative summer scheduling, generated \$100,000+ revenue
- Faculty affairs
 - College resource on tenure, promotion, evaluation, handbook
 - Developed faculty workload framework
 - Managed annual faculty awards
- Student Success
 - Identified, reduced bottlenecks in General Education courses
 - Monitored and advised on enrollments and course planning

Interim Department Head

March 2014 – June 2016

Department of Mathematics, UTC

Highlights:

- Increased graduate program enrollment (from 13 to 21 students) despite 90% cut to GTA support
- Led deployment of department's first online courses, which now account for 85%+ of all summer Mathematics credit hours
- Expanded study/support space for undergraduate and graduate students
- Led successful five-year program review

Education

Ph.D. in Applied Mathematics, North Carolina State University (NCSU), Raleigh, NC, December 2000. Dissertation: *An Analytical and Numerical Study of Granular Flows Through Hoppers*. Adviser: Pierre Gremaud.

M.S. in Applied Mathematics, NCSU, Raleigh, NC, August 1999.

B.S. in Mathematics, NCSU, Raleigh, NC, May 1995.

Academic Appointments

Professor, Department of Mathematics, University of Tennessee at Chattanooga, Chattanooga, TN. August 2016 – present.

Associate Professor, Department of Mathematics, University of Tennessee at Chattanooga, Chattanooga, TN. August 2012 – July 2016.

Assistant Professor, Department of Mathematics, University of Tennessee at Chattanooga, Chattanooga, TN. August 2004 – July 2012.

Research Associate, Department of Mathematics, Duke University, Durham, NC. August 2003 – July 2004.

VIGRE Post-doc, Department of Mathematics, Duke University, Durham, NC. August 2000 – July 2003.

Graduate Research Assistant, Department of Mathematics, North Carolina State University, Raleigh, NC. August 1998 – July 2000. Adviser: Pierre Gremaud.

Graduate Teaching Assistant, Department of Mathematics, North Carolina State University, Raleigh, NC. August 1995 – May 1998.

Engagement & Service

State

- *Member*, UT Online Consortium Steering Committee, December 2020 – December 2021.
- **Chair**, UT System Department Profiles – Faculty & Staff Subcommittee, October 2019 – June 2020.
- *Member*, UT System Department Profiles Steering Committee, January 2019 – June 2020.
- *Member*, TN Articulation & Transfer Council, June 2018 – June 2020.
- *Task Force Member*, UT Program Effectiveness Task Force, November 2017 – June 2018.

University

- **Co-chair**, Campus Master Planning Steering Committee, November 2021 – present.
- **Vice Chair**, Technology Purchase Review Board, October 2021 – present.
- *Committee Member*, UTC Strategic Plan 2021-2025, Diversity, Inclusion, and Culture Subcommittee, October 2020 – February 2021.
- **Chair**, UTC Safety & Security Advisory Committee, July 2019 – present.
- **Chair**, UTC Policy Review Committee, August 2018 – present.

- *Member*, CARE Team, August 2019 – present.
- **Co-Chair**, COVID-19 Implementation Task Force, June 2020 – June 2021.
- **Vice Chair**, UTC IT Governance Committee, November 2017 – June 2020.
- *Search Committee Member*, Vice Chancellor for IT and CIO, August 2019 – October 2019.
- *Search Committee Member*, UTC Registrar Search, February 2019 – April 2019.
- *Interviewer* of Student Applicants, UTC Honors College, January 2018 & 2019.
- *Committee Member*, UT President's Award Review Committee, November 2017.
- **Search Committee Chair**, UTC Honors College Associate Director Search, May – July 2017.
- *Committee Member*, Student Success Steering Committee, 2016 – 2017.
- *Committee Member*, Technology Advisory Council, 2016 – 2017.
- *Committee Member*, UTC STEM Education Advisory Board, 2015 – 2017.
- *Committee Member*, Executive Committee of the UTC Council of Academic Department Heads, 2015 – 2016.
- *Committee Member*, Ad Hoc Committee on UTC Faculty Workload, 2015 – 2016.
- **Committee Chair**, Auxiliary Services Committee, 2013-2014 Academic Year.
- *Faculty Senator*, Math and Sciences Division, UTC Faculty Senate, 2011 – 2013.
- *Committee Member*, UTC Library Committee, 2011 – 2012.
- *Committee Member*, UTC Faculty Athletics Committee, 2009 – 2012.
- *Committee Member*, NCAA Self-Study Committee for Athletics, Governance and Commitment to Rules Compliance Subcommittee. 2010-2011 Academic Year.

College

- **Chair**, College of Arts & Sciences Curriculum Committee, June 2016 – June 2018.
- **Chair**, College of Arts & Sciences College Council, June 2016 – June 2018.
- **Chair**, Department Head Search Committee, UTC Department of Communication, September 2015 – March 2016.
- *Committee Member*, College of Arts & Sciences Ad Hoc Budget Committee, 2014 – June 2016.
- *Committee Member*, College of Arts & Sciences Executive Committee, 2013 – present.
- *Committee Member*, College of Arts & Sciences College Council, 2014 – June 2016.
- *Committee Member*, College of Arts & Sciences Strategic Planning Committee, 2015 – 2016.

Department

- *Committee Member*, Math Competitions Committee, 2017 – 2019.
- *Course Coordinator*, MATH 1950/1960/1920, 2014 – 2015 Academic Year.
- **Chair**, Student Relations Committee, 2010 – 2014 Academic Years. Coordinated UTC Math Poster Competition, Pi Mu Epsilon activities, biweekly department socials.
- *Committee Member*, Graduate Coordinating Committee, 2011 – 2014 Academic Years, Department of Mathematics, UTC.
- *Course Coordinator*, MATH 151/1910 Calculus I, 2009 – 2013 Academic Years.
- *Departmental Web Content Manager*, Department of Mathematics. Includes departmental website (department news, program and course information) and Facebook presence. 2009 – 2011.

- *Committee Member*, Department of Mathematics Colloquium Committee, 2008 – 2010 Academic Years.
- *Committee Member*, ad hoc Calculus book selection committee, University of Tennessee at Chattanooga, Spring of 2008 – 2009 Academic Year.
- *Committee Member*, ad hoc College Algebra and Business Calculus book selection committee, University of Tennessee at Chattanooga, Spring of 2008 – 2009 Academic Year.
- *Committee Member*, ad hoc Graduate Program Proposal Committee, Spring 2007 – 2009. Contributed to development of program and curriculum, maintained some proposal documentation.
- *Committee Member*, Department of Mathematics Student Relations Committee, 2006 – 2009 Academic Years.
- *Organizer*, University of Tennessee Department of Mathematics Socials, 2005 – 2007.
- *Committee Member*, Department of Mathematics Technology Committee, 2006 – 2008 Academic Years.
- *Committee Member*, ad hoc Calculus book selection committee, University of Tennessee at Chattanooga, Spring of 2004 – 2005 Academic Year.
- *Committee Member*, Department of Mathematics Curriculum Committee, University of Tennessee at Chattanooga, 2004 – 2005 Academic Year.

Professional

- *Reviewer*, Involve, SIAM Journal on Applied Mathematics, The American Mathematical Monthly, Ain Shams Engineering Journal.
- *Referee*, Moody's Mega Math Challenge 2016, SIAM.
- *Contributed Session Chair*, Differential and Difference Equations IV, AMS/MAA Joint Mathematics Meetings, 15 January 2010.
- *Advisor*, Pi Mu Epsilon chapter, University of Tennessee at Chattanooga, 2007 – present.
- *Organizing Committee Member*, 24th Annual Southeastern-Atlantic Regional Conference on Differential Equations, 22 – 23 October 2004.

Community

- *Textbook Selection Committee Member*, Upper High School Curriculum, Hamilton County Department of Education, January – March 2023.
- *External Advisor*, Student Senior Project for Erik Overberg, 2019 – 2020.
- *Volunteer*, Chattanooga School for Arts & Sciences, 2018 – 2020.
- *Textbook Selection Committee Member*, Upper High School Curriculum, Hamilton County Department of Education, January – March 2015.
- *Volunteer*, Harrison United Methodist Church Back to School Bash event, each August since 2012.
- *Instructor*, Loop-a-palooza Day, Mathematics Session for Local Cub Scouts to earn Mathematics belt loop, January 2012.
- *Teaching Assistant*, Preschool Children's Church, Harrison United Methodist Church, monthly, 2007 – 2014. Assisted with class for children from age 3 years through kindergarten.
- *Volunteer*, Cub Scout Pack #82, Harrison United Methodist Church, 2009 – 2014.
- *Committee Member*, Finance Committee, Harrison United Methodist Church, 2008 – 2010, 2013 – 2014.

Awards

1. *Distinguished Service*, Annual Administrator Evaluation, 2017-2018.
2. *Distinguished Service*, Annual Administrator Evaluation, 2016-2017.
3. *Distinguished Service*, Annual Administrator Evaluation, 2015-2016.

Professional Development

4. *Distinguished Service*, Annual Administrator Evaluation, 2014-2015.
5. *Exceeds Expectations*, Annual Faculty Evaluation, 2011-2012.
1. *UT Executive Leadership Institute*, August 2022 – June 2023.
2. *UT Leadership Institute (2022 Cohort)*, deferred to February 2023 by COVID-19.
3. *SACSCOC 2019 Annual Meeting*, SACSCOC, 7–10 December 2019. Houston, TX.
4. *2019 Academic Affairs Winter Meeting*, AASCU, 7–9 February 2019. Amelia Island, FL.
5. *SACSCOC 2018 Annual Meeting*, SACSCOC, 7–11 December 2018. New Orleans, LA.
6. *UTC Executive Education Leadership Program*, Gary W. Rollins College of Business, January 2018 – October 2018. Chattanooga, TN.
7. *2018 Institute on Quality Enhancement and Accreditation*, SACSCOC, 22–24 July 2018. Atlanta, GA.
8. *Council of Colleges of Arts & Sciences 52nd Annual Meeting*, 2–4 November 2017. Denver, CO.
9. *2017 Leadership in Higher Education Conference*, Magna Publications, 19–21 October 2017, Baltimore, MD.
10. *Emerging Leaders Program*, AASCU, 3–6 June 2017, Washington D.C.
11. *JNGI 2017 Annual Gateway Course Experience Conference*, John N. Gardner Institute, 26–28 February 2017, Las Vegas, NV.
12. *Council of Colleges of Arts & Sciences 51st Annual Meeting*, 3–5 November 2016. San Diego, CA.
13. *23rd Institute for Teaching and Mentoring*, 27–29 October 2017, Tampa FL.

Grants

1. *College of Arts & Sciences Student Success Center Funding*, UC Foundation. Amount: \$30,586.
2. *I-Math: Interdisciplinary Math Training at UTC*, NSF-DMS Infrastructure Program. Primary-Investigator: Jin Wang. I serve as a co-Investigator. Submitted: December 2014. Funded: September 2015. Amount: \$500,000.
3. *UTC Faculty Development Grant*, \$500. A Local Approach for an Inverse Problem on a Semi-Axis (Presented at AMS/MAA Joint Mathematics Meetings 2011). Awarded Fall 2011 for January 2012.
4. *UTC Faculty Development Grant*, \$500. Numerical Solution for a Dynamical Inverse Problem on a Metric Tree (Presented in a Minisymposium, Differential Equations on Graphs and their Applications, at ICIAM 2011). Awarded Spring 2011 for July 2011.
5. *UTC Faculty Development Grant*, \$500. A Dynamic Inverse Problem on a Metric Tree (Presented in a Special Session at the Joint Math Meetings 2011). Awarded Fall 2010 for January 2011.
6. *UTC Faculty Development Grant*, \$1000. Presentation at the MAA/AMS Joint Meetings of “Analysis and Numerical Solution of a Non-local Ordinary Differential Equation”. Awarded Fall 2009 for January 2010.
7. *UTC Faculty Research Grant*, \$3000. “Study of and Computational Tool Development for Sub-Self-Complementary Graphs”. Awarded Spring 2009 for use in Spring 2010.
8. *UTC Student Technology Fee Grant*, \$1800. Purchased Maple 11 software for use in computer laboratory run by the UTC Department of Mathematics, in the computer laboratory in the UTC University Center, and for use by faculty. Spring 2007.

Publications

1. (with B.P. Belinskiy, J.W. Hiestand) *Piecewise uniform optimal design of a bar with an attached mass*, Electron. J. Diff. Equ., Vol. 2015 (2015), No. 206, pp. 1-17.
 2. (with J.H. Hattingh, L.C. van der Merwe, et al) *Total Edge Critical Graphs with Leaves*, Discrete Mathematics, 312 (2012), No. 24, p.3482 – 3488.
 3. (with S.A. Avdonin and B. Belinskiy) *Inverse problem on the semi-axis: local approach*, Tamkang Journal of Mathematics, 42 (2011), No. 3, Special Issue on Inverse Spectral Problem, p.275 – 293.
 4. (with S.A. Avdonin and B. Belinskiy) *Dynamical Inverse Problem on a Metric Tree*, Inverse Problems 27, No. 7, (2011) 075011.
 5. (with B. Belinskiy), *Some nonlinear and nonlocal Sturm-Liouville problems motivated by the problem of flutter*, E. J. Qualitative Theory of Diff. Equ., Spec. Ed. I, (2009) No. 7, p.1 – 15.
 6. (with J.F. Wambaugh, P.A. Gremaud and R.P. Behringer) *Response to perturbations for granular flow in a hopper*, Phys. Rev. E, 76 (2007), p.051303-1 – 051303-8.
 7. (with P.A. Gremaud and D.G. Schaeffer) *On the Computation of Steady Hopper Flows III: Model Comparisons*, J. Comp. Phys., 219 (2006), p.443 – 454.
 8. (with P.A. Gremaud and M. O'Malley) *On the Computation of Steady Hopper Flows II: von Mises Materials in Various Geometries*, J. Comput. Phys., 200 (2004), p.639 – 653.
 9. (with D.G. Schaeffer) *A Well-Posed Free Boundary Value Problem for a Hyperbolic Equation with Dirichlet Boundary Conditions*, SIAM J. Math. Anal., 36 (2004), p.256 – 271.
 10. (with P.A. Gremaud and D.G. Schaeffer) *Secondary Circulation in Granular Flows through Nonaxisymmetric Hoppers*, SIAM J. Appl. Math., 64 (2003), p.583 – 600.
 11. (with P.A. Gremaud) *On the Computation of Steady Hopper Flows I: Stress Determination for Coulomb Materials*, J. Comput. Phys., 166 (2001), p.63 – 83.
 12. (with P.A. Gremaud) *Simulation of Gravity Flow of Granular Materials in Hoppers*, Discontinuous Galerkin Methods: Theory, Computation and Applications, B. Cockburn, C.W. Shu, G. Karniadakis, Eds. Lecture Notes in Computational Science and Engineering, #11 (2000), Springer Verlag, p.125 – 134.
 13. (with P.A. Gremaud and M. Shearer) *Similarity solutions for hopper flows*, Proceedings of the SIAM/AMS Conference on Nonlinear PDEs, Dynamics, and Continuum Physics, J. Bona, K. Saxton, R. Saxton, Eds. AMS Contemporary Mathematics Series, #255 (2000), p.79 – 95.
1. *Quantifying the Unquantifiable: Creating A Workable Workload Policy* (presentation & panel with G.W. Hynd and J.S. Elwell), Council of Colleges of Arts & Sciences 52nd Annual Meeting, 2 November 2017. Denver, CO.
 2. *The leading mode in an ice-covered ocean wave guide*, AMS Special Session on Differential Equations, Probability and Sea Ice, AMS/MAA Joint Mathematics Meetings, 7 January 2016. Seattle, WA.
 3. *Local Approaches to Reconstruction on the Semi-Axis*, Special Session on Theory and Applications of Differential Equations on Graphs, Spring Eastern Sectional Meeting, 29 March 2014. Baltimore, MD.
 4. *Effect of convection on optimal design of a bar with attached mass*, AMS/MAA Joint Mathematics Meetings, 16 January 2014. Baltimore, MD.
 5. *A Local Approach for an Inverse Problem on a Semi-Axis*, AMS/MAA Joint Mathematics Meetings, 7 January 2012. Boston, MA.

6. *Numerical Solution for a Dynamical Inverse Problem on a Metric Tree*, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), 20 July 2011, Vancouver, BC, Canada.
7. *A Dynamical Inverse Problem on a Metric Graph*, AMS/MAA Joint Mathematics Meetings, 9 January 2011. New Orleans, LA.
8. *Analysis and Numerical Solution of a Non-local ODE Motivated by Flutter*, AMS/MAA Joint Mathematics Meetings, 15 January 2010. San Francisco, CA.
9. *A Comparison of Constitutive Models in Granular Flows*, 8 October 2005, 25th Annual Southeastern-Atlantic Regional Conf. on Differential Equations, Univ. of Dayton, Dayton, OH.
10. *Circulating flows in non-axisymmetric hoppers*, 24th Annual Southeastern-Atlantic Regional Conference on Differential Equations, 22 October 2004, University of Tennessee at Chattanooga, Chattanooga, TN.
11. *Granular flow through a non-axisymmetric hopper*, Mathematical Issues in Granular Flows Workshop, Granular and Particle-Laden Flows Programme, Isaac Newton Institute for Mathematical Sciences, 20 October 2003, Cambridge, UK.
12. *On the Calculation of Hopper Flows for Granular Materials*, with P.A. Gremaud, Granular Flow: Theory, Experiment, Simulation, and Application Mini-Symposium, 14 May 1999, SIAM Annual Meeting. Atlanta, GA.
13. *Solving a granular flow problem with a discontinuous Galerkin method*, 18th Annual Southeastern-Atlantic Regional Conference on Differential Equations, 16 October 1998, Auburn University, AL.

Other Talks

1. *What strategies are most effective in helping students on academic probation get back on track?*, Skyhawk Regional Retention Summit, facilitator, 25 May 2022.
2. *Engaging with Faculty to Improve Mental Health Outcomes for Students*, Academic and Student Affairs Summit, co-facilitator with Dr. Philip Smartt (Professor and Faculty Senate President, UT Martin), 22 November 2019. Nashville, TN.
3. *How can we use data more effectively to improve student success?*, Skyhawk Regional Retention Summit, co-facilitator with Dr. Thomas Burns (Provost, Belmont University), 8 May 2019. Martin, TN.
4. *Co-Requisite Remediation and the Transition to the Four-year University*, UT System Math Summit, 6 April 2018. Martin, TN.
5. *Math Plaza Integration with General Education Mathematics at UTC*, UT System Math Summit, 24 March 2017. Knoxville, TN.
6. *A Comparison of Local Methods for an Inverse Problem on a Semi-axis*, 20 January 2012, UTC Department of Mathematics Colloquium.
7. *A Dynamical Inverse Problem on a Metric Graph*, 9 February 2011, UTC Department of Mathematics Colloquium.
8. *Analysis and Numerical Solution of a Non-local ODE Motivated by Flutter*, 5 April 2010, UTC Department of Mathematics Colloquium.
9. *Use of MyMathLab and MathZone in UTC Mathematics Courses* (with Meg Kiessling), 6 November 2009, UTC Department of Mathematics Colloquium.
10. *Results for Sub-Self-Complementary Graphs* (with Lucas Van der Merwe and Marc Loizeaux), 18 May 2009, UTC Department of Mathematics Colloquium.
11. *Granular Flows Around Hopper Inserts*, 8 November 2007, UTC Department of Mathematics Colloquium.
12. *Granular Flows Through Inclined Hoppers: Experiment and Simulation Compared*, 20 April 2006, UTC Department of Mathematics Colloquium.
13. *Different Granular Flow Models in Various Hopper Geometries*, 24 May 2005, UTC Department of Mathematics Colloquium.

UTC Teaching Experience

14. *Granular Flow Through Nonaxisymmetric Hoppers*, 8 September 2003, Scientific Computing & Applied Mathematics Seminar, Duke University. Durham, NC.
15. *Secondary Circulation in Granular Flows through Nonaxisymmetric Hoppers*, 20 June 2003, Industrial Research Limited. Wellington, NZ.
16. *Secondary Circulation in Granular Flows through Nonaxisymmetric Hoppers*, 10 June 2003, Department of Engineering Science, University of Auckland. Auckland, NZ.
17. *Computation of Granular Flows Through Hoppers*, 23 January 2000, Numerical Analysis Seminar, Department of Mathematics, North Carolina State University. Raleigh, NC.
18. *Shocks and Rarefactions in Granular Flows Through Hoppers*, 21 June 1999, Mathematical Analysis of Viscoelastic Flows (NSF-CBMS Regional Conference), University of Delaware. Newark, DE.
1. Origins of Mathematics (Honors), UHON 3570.
2. Numerical Partial Differential Equations, MATH 5620.
3. Numerical Analysis I & II, MATH 4600/4610, MATH 5600/5610.
4. Introduction to Differential and Difference Equations, MATH 2450.
5. Mathematical Models, Functions and Applications, MATH 2300.
6. Calculus with Analytic Geometry II, MATH 1960.
7. Calculus with Analytic Geometry I, MATH 1950.
8. Calculus I & II Labs, MATH 152 & MATH 162.
9. Precalculus I & II, MATH 144 & 145 (now MATH 1710 & 1720).
10. Business Calculus for Management, Life, and Social Sciences, MATH 136 (now MATH 1830).
11. College Algebra, MATH 131 (now MATH 1130) small lecture (45 student) and large lecture (200 student) formats.

Mentoring

Daniel S. Long (undergraduate, Department of Mathematics, UTC). Advised on project to port BLAS/LAPACK (numerical linear algebra) codes to the Go language (created by Google) to exploit the language's inherent parallel processing ability. Results presented at the Eighth Annual Harriett J. Walton Symposium on Undergraduate Mathematics Research on 10 April 2010, and subsequently published in the conference proceedings.

Samuel T. Chill (undergraduate, Department of Chemistry, UTC). Advised on project to derive equations for steady state solutions of granular flows in conical hoppers and to write a shooting code for boundary value problems to obtain numerical solutions to those equations. Results presented at the Fifth Annual Harriett J. Walton Symposium on Undergraduate Mathematics Research on 31 March 2007, and subsequently published in the conference proceedings.

Shane E. Sawyer (undergraduate, Department of Mathematics, UTC). Advised on a project to investigate grid-dependent oscillations in higher order numerical schemes for hyperbolic conservation laws. Mr. Sawyer presented his work at the Fourth Annual Harriett J. Walton Symposium on Undergraduate Mathematics Research on 1 April 2006.

Graduate Committee Service

1. *Ph.D. Committee Member*, for Jhiin Joo, "Large-Eddy Simulation of Turbulent Wall-Pressure Fluctuations Using the Finite Element Method", Department of Computational Engineering, UTC, 24 June 2019.
2. *Ph.D. Committee Member*, for Angelique Ramnarine, "Influential Factors of Academic Performance and Course Retention in College Mathematics: Face-to-Face Versus Online", Learning and Leadership, UTC, 9 March 2018.
3. *Ph.D. Committee Member*, for Lawton Shoemake, "Linear Elastic Mesh Deformation Via Localized Orthotropic Material Properties Optimized by the

- Adjoint Method”, Department of Computational Engineering, UTC, 16 October 2017.
4. *Ph.D. Committee Member*, for Kristen Karman, “Higher Order Mesh Curving Using Geometry Curvature Extrapolation” Department of Computational Engineering, UTC, 2 October 2017.
 5. *Ph.D. Committee Member*, for David Collao, “Computational Study of the Effects of Protruding Studs Casing Treatment on the Performance of an Axial Transonic Turbofan” Department of Computational Engineering, UTC, 14 February 2017.
 6. *Ph.D. Committee Member*, for Arash Ghasemi, “Spectral hulls: a degree of freedom reducing hp-strategy in space/time,” Department of Computational Engineering, UTC, 22 June 2016.
 7. *Ph.D. Committee Member*, for Behrouz Shamsaei, “On the uncertainty quantification and nonlinear hyper elastic simulation of biological tissues,” Department of Computational Engineering, UTC, 21 June 2016.
 8. *Ph.D. Committee Member*, for Jaber Javanshir Hasbestan, “Least squares spectral element method for laminar and turbulent flows – continuous and discontinuous approaches,” Department of Computational Engineering, UTC, 20 June 2016.
 9. *Ph.D. Committee Member*, for Don Warrington, “Improved methods for forward and inverse solutions of the wave equation for piles,” Department of Computational Engineering, UTC, 20 May 2016.
 10. *Ph.D. Committee Member*, for Chao Liu, “A Stabilized Finite Element Dynamic Overset Method for the Navier-Stokes Equations,” Department of Computational Engineering, UTC, 11 March 2016.
 11. *Ph.D. Committee Member*, for Anshul Mittal, “A Parabolized Navier-Stokes Method for Wind Farm Applications,” Department of Computational Engineering, UTC, 6 October 2015.
 12. *Ph.D. Committee Member*, for Behzad Reza Ahrabi, “An hp-Adaptive Petrov-Galerkin Method for Steady-State and Unsteady Flow Problems,” Department of Computational Engineering, UTC, 18 June 2015.
 13. *Ph.D. Committee Member*, for Nicholas Currier, “Reacting Plume Inversion on Urban Geometries through Gradient Based Design Methodologies,” Department of Computational Engineering, UTC, 13 June 2014.
 14. *Ph.D. Committee Member*, for Tony McDaniel, “A Numerical Investigation of Compressible Flow in a Curved S-Duct,” Department of Computational Engineering, UTC, 7 February 2014.
 15. *Ph.D. Committee Member*, for Ashish Gupta, “Preconditioning Methods for Ideal and Multiphase Multispecies Fluid Flows,” Department of Computational Engineering, UTC, 18 June 2013.
 16. *Ph.D. Committee Member*, for Ryan Glasby, “Computational Design for Time-Domain Electromagnetic Simulation,” Department of Computational Engineering, UTC, 21 April 2011.
 17. *Ph.D. Committee Member*, for Jim Masters, “Winslow Elliptic Smoothing Equations Extended to Apply to General Regions of an Unstructured Mesh,” Department of Computational Engineering, UTC, 16 November 2010.
 18. *Ph.D. Committee Member*, for Vincent Betro, “Fully Anisotropic Split-Tree Adaptive Refinement Mesh Generation with Tetrahedral Mesh Stitching,” Department of Computational Engineering, UTC, 20 July 2010.
 19. *Ph.D. Committee Member*, for Kyle Lange, “Sensitivity Analysis for a Radio Frequency Atmospheric Pressure Plasma Discharge Simulation,” Department of Computational Engineering, UTC, 9 July 2009.

20. *Ph.D. Committee Member*, for Sagar Kapadia, “Design and Sensitivity Analysis of Solid Oxide Fuel Cells,” Department of Computational Engineering, UTC, 11 July 2008.
21. *Master's Degree Committee Member*, for Vincent Betro, “Parallel Hierarchical 2D Unstructured Mesh Generation with General Cutting,” Department of Computational Engineering, UTC, 2007.