

VITA - DR. YVETTE HESTER
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EDUCATION

- Ph.D. Educational Statistics and Psychometrics, Texas A&M University (2000)
M.S. Applied Mathematics, Texas A&M University (1989)
B.S. Mathematics, University of Houston (1986)

PROFESSIONAL EXPERIENCE

Assistant Dean for Student Affairs	Texas A&M University, College of Science, 1/17 - present
Instructional Associate Professor	Texas A&M University, Department of Mathematics, 9/2015 - present
Assistant Department Head	Texas A&M University, Department of Mathematics, 1/12 - 9/17
Instructional Assistant Professor	Texas A&M University, Department of Mathematics, 9/13 - 9/15
Senior Lecturer	Texas A&M University, Department of Mathematics, 1/08 - 12/11
Mathematics Department Chair	Germann Community College, 8/03 - 6/07
Promoted to Full Professor	Germann Community College, 5/06
Dean of Instruction	Germann Community College, 1/03 - 7/05
Associate Professor	Germann Community College, 8/01 - 5/06
Senior Lecturer	Texas A&M University, Department of Mathematics, 9/96 - 6/01
Program Evaluator	ASSOCIATION FOR WOMEN IN MATHEMATICS: Mentoring Grant Assessment, 2001
Program Evaluator	WOODROW WILSON PROJECT: Improving Algebra Instruction, Grant #94017 TAMU, 1997
Program Evaluator	EISENHOWER PROJECT: Integrating Probability and Statistics Concepts into Mathematics Instruction, Grades 3-5, Grant #94016 TAMU, Fall, 1996
Program Evaluator	TAMUPREP - Summer, 1996
Lecturer	Texas A&M University, Department of Mathematics, 9/90 - 9/96
Instructor of Record	Blinn College, (Summers, 1990 to 1992)
Teaching Assistant	Texas A&M University, 8/87 - 8/90

ACTIVITIES

Mathematics Department

- Member, Ad Hoc Committee for defining the promotion process for APT Faculty in the Mathematics Department, 9/18 - 2/19
 - This committee drafted guidelines and criteria for APT promotions at every rank. We looked at other Universities titles and procedures, and other colleges within TAMU to begin a review. This document is now at Departmental EC review.
- Joint Committee for College of Science/College of Engineering Curriculum Implementation, 8/17 - 5/18
 - This committee began the implementation of Calculus First and the new ENGR 111 and ENGR 112 with Python.
- Formed, charged and monitored the Math 151, 152, 251 and 308 content committees for compliance with the THECB/ACGM guidelines and learning outcomes for these courses in preparation for the implementation of the Joint CoE/CoS Committee Curriculum
- Joint Committee for College of Science/College of Engineering Curriculum Revision, 8/16 - 5/17
- CO-led Department initiatives for PLTL and lower D/F/Q rates in freshman courses, 08/16 – 05/17
- Chair, Academic Professional Track Committee (APTC) (internal governance), 08/08 – 05/17
 - As Chair of this committee, in addition to other items, I wrote all (~32) APT annual evaluations yearly

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- Chair, Non-STEM Course Committee (NSCC), 8/16 to 5/17
- Chair, Subcommittee L, 01/12 - 01/15
 - Wrote promotion packets for Lecturers moving to Senior Lecturer positions
- Help Session Coordinator; Interview/hire, staff and schedule all department help sessions, 01/10 – 12/16
- Led 8 mini-sessions for Liberal Arts Students on being successful in core mathematics, Fall 2012
- Business Math Tutorial Assistant Coordinator; 08/11 - 12/13
- Course Coordinator and TI-83/83+ advisor for all the Business and Social Science freshman courses (Math 131, 141, 142 and 131), 08/93 - 12/00
- Chair, Textbook committees for Non-STEM Math courses, 08/93 – 12/00, 08/08 – 12/09
- Responsible for the assessment component for the Mathematics Department in WEAVEonline for the SACS accreditation site visit at Germanna College, 08/06 – 05/07

College Level

- eCampus courses for ASSIST and RetainU, served as Instructor of Record, Spring, 2019
 - Made appropriate changes from Spring, 2018 courses
 - Posted discussion topics and Reflective Writing assignments weekly
 - Provided three large, face-to-face mid-term grade advising meeting for all enrolled with individual appointments for those who could not attend.
- Invited to give opening remarks at 45th Annual Texas Junior Science & Humanities Symposium, January, 2019
- Present at 15 New Student Conferences per year, 1/17 - present
 - Prepare and present a 45-minute power point for College of Science students and parents
- Oversee the Louis Stokes Alliance for Minority Participation (LSAMP) program for the college, 8/18 - present
 - Proposal submission to the main LSAMP office on campus for \$30,000 in stipends for two semesters for 30 students required.
- Student affairs for the college, 1/17 - present
 - Hear all student grievances
 - Student Counseling, Advising and Appeals from removal (~60 student appointments per semester)
 - Decision on Referral Admissions
 - Decision on Readmit Admissions
 - Decision on Post-Baccalaureate and Non-degree Seeking Admissions
 - Conduct and honor violations
 - Grade Appeals
 - End of semester decisions and letters for removal, probation, Distinguished students and Dean's Honor Roll
- Lead Advisors Committee, Monthly meetings with department lead Advisors, 1/18 - present
 - This committee meets monthly with the lead Advisors from every department. Admissions updates, changes to NSCs, Registrar's office updates, Student Success updates, advising notes methods, change of curriculum process, etc. are typical topics discussed.
- Researched/wrote the new Interdisciplinary Science degree for Biology Informatics for submission to CARS, Fall, 2018
- Researched/wrote the new USSC degree for Biology Informatics for submission to CARS fall, 2018
- Established and chaired the RetainU Executive Committee, 8/18 - present
 - This committee meets twice per month with a representative (or two) from each department in the college to discuss Mentors, good things, bad things, all things RetainU.
- Set up the National Scholars seminar on Friday afternoons for Fall, 2018

- Created, facilitated and taught two SCEN 289 courses (MW nights, 539 students), Fall, 2018
- Power-point presentation to the External Advisory Development Council for the College, October, 2018
- Oversaw RetainU Student Success Initiative, Fall, 2018
 - Presented Academic Boot camp to all groups:
 - Transfer Learning Community (TLC)
 - Academic Student Success with Individualized Student Training (ASSIST)
 - Biology Scholars
 - Mathematics Scholars
 - Chemistry Scholars
 - Physics and Astronomy Scholars
 - Regent Scholars for Chemistry, Mathematics, Physics and Astronomy

This entails an hour long power-point presentation that includes study tips, time management help, importance of class attendance and good note-taking, etc. as gleaned from educational research.
 - Six student mid-term grade meetings (group-same as above plus individual meetings)

This entails a short, 20-minute presentation covering a handful of grade report situations with advice as to what the student should do under certain circumstances. Following the presentation, students are invited to line up for individual questions and advising. Individual appointments is another option.
- Created three eCampus courses for ASSIST and RetainU, served as Instructor of Record, Spring, 2018
 - Presented a “Tips for a Successful Semester” for all three seminar courses
 - Posted discussion topics and Reflective Writing assignments weekly
 - Provided a large, face-to-face mid-term grade advising meeting for all enrolled
- Power-point presentation to the External Advisory Development Council for the College, March, 2018
- Interdisciplinary Professional Science degree committee, 9/17 – 5/18
- Invited to give opening remarks at 44th Annual Texas Junior Science & Humanities Symposium, January, 2018
- Piloted College wide RetainU Student Success Initiative, fall, 2017
 - Presented Academic Boot camp, Mentors and Mid-term grade meetings for each of following
 - Transfer Learning Community (TLC)
 - ASSIST
 - Biology Scholars
 - Mathematics Scholars
 - Chemistry Scholars
 - Physics and Astronomy Scholars
 - Provided RetainU learning community to Regent Scholars in Chemistry, Mathematics, Physics and Astronomy
- Power-point presentation at the New Faculty Orientation for the College, 8/17
- Accompanied Dean Aronson on the Dallas Road Scholars Trip, Summer, 2017
 - This trip, as well as the Brownsville Scholars trip in the previous spring, provided invaluable information toward the forming of the Interdisciplinary Science Degree
- Piloted the Academic Student Success with Individualized Student Training (ASSIST) Program for freshman who ended up on probation after their first semester, Spring, 2017
 - Interviewed and hired seven UTFs
 - Met with all ASSIST students (~70) and Mentors and assigned groups
 - Solicited feedback from Mentors and Mentees throughout the semester
 - Held individual mid-term grade meetings
- Submitted NSF proposal with Biology, 2/2017 (not funded)

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- Accompanied Dean Aronson on the Brownsville Road Scholars Trip, Spring, 2017
 - This trip, as well as the Dallas Scholars trip in summer, provided invaluable information toward the forming of the Interdisciplinary Science Degree
- Chair, Faculty Advisory Committee to the Dean, 08/13 - 12/16
- Invited Speaker for 2006 Women Professionals Conference at Germanna College, VA
- Invited Speaker for 2005 Commencement Ceremony of the Piedmont Juvenile Corrections Facility, VA

Texas A&M University

- Accepted to teach an interdisciplinary section of Hullabaloo U for the University Office of Student Success in Fall, 2019 and Spring 2020
- Advisory Panel for Academic Support Services Tutoring app, 3/19 to present
 - We will be piloting the app this summer in conjunction with the Academic Success Center and some summer core courses (serving at Ann Kenimer's request).
- Committee on Student Evaluations of Instructor for P&T, 1/19 - 7/19
 - This committee has been charged by the Provost to determine IF student evaluations should be used in P&T cases and, if so, how, and what are the best questions.
 - I have contributed to this committee by researching current practices and vetted questions at other "like" Universities and worked in subcommittees on vetting appropriate questions for final use.
- Academic Operations Committee of Deans (AOC), 1/17 - present
 - This committee meets first and third Wednesday afternoons for 1 ½ hours to discuss items that affect academic operations across the University at the college level.
- University FYEX Rubric and Certification Committee, 1/19 - present
 - I reviewed and certified program submissions against a rubric I helped create for the fall pilot of the University FYEX (now Hullabaloo U)
- University Success Initiative Implementation Committee, 12/18 - present
 - A subcommittee of the University Student Success Taskforce, charged with the implementation of the pilot FYEX courses for Fall, 2019, now Hullabaloo U. University level branding, common content topics, vetting the submissions and general decisions and feedback are some tasks under the purview of this committee.
 - University Student Success Initiative Taskforce, 7/18 - 12/18
 - Personnel across the University worked on recommendations for the Provost based on other major University programs and best practices from student success research.
- Faculty Advisory Committee to the Vice President for Student Affairs, 9/18 - present
 - This committee examines Title IX issues and recommendations, and other topics that affect the student body at the University level.
- Faculty Advisory Committee for the Academic Success Center, 9/18 - present
 - This committee discusses remedies and suggestions for marketing the ASC to more students on campus, as well as perceptions among faculty and students re: its helpfulness. We have begun to look at a new mission and vision that are in line with the Provost's report and SOAR analysis (Strengths, Opportunities, Aspirations, Results). Assessment of the ASC's various programs is another topic.
- Presented my Student Success eCampus courses to the College of GeoSciences
- Worked with the "Engaging National Leaders in Undergraduate Success" Think Tank for the Office of Undergraduate Studies, 8/17 - 4/18
- Attended the University Student Success Workshop hosted by the Provost's Office, Spring, 2018
- Co-Chair, Faculty Senate Academic Professional Track Faculty Committee, 01/14 – 05/16
- Served on the Faculty Senate Ad Hoc Subcommittee for Non-Tenure Track Faculty, 08/13 – 08/14

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- Co-Chair, Committee on the Status of Lecturers, TAMU, 08/94 - 05/96
- Performed analysis on data of University-wide survey for the Dean of Faculties Office, 1995

State Level

- Invited expert evaluator for Stage II of the THECB request for proposals for the 60 x 30 Texas Success Initiative Assessment, May, 2019
- AD HOC Committee for response to THECB Field of Study issues, Fall, 2018
- Texas Higher Education Coordinating Board (THECB) Field of Study Committee for Mathematics, 8/18 – present (2 year commitment)
 - This committee was comprised of half four year institutions and half two year institutions. Our initial charge consisted of two intensive work days in Austin deciding on a core of courses that students could take at Community College that would be accepted in their entirety at Texas four year institutions.
- Texas Higher Education Coordinating Board (THECB) Vertical Team Committee for reviewing and revising the Texas College and Career Readiness Standards, 11/17 – present
 - This committee was comprised of half four year institutions and half high school leaders. Our initial charge consisted of three intensive work days in Austin rewriting and revising standards for high school students to demonstrate college readiness.
- Organized and hosted the 2006 annual State of Virginia Mathematical Association of Two Year Colleges Conference, spring, 2006
 - I chaired the organization committee.

National Level

- Submitting a paper to the peer reviewed *Journal of College Student Retention: Research, Theory & Practice* in June, 2019
- Invited proposal reviewer for the 26th National Conference on Students in Transition, Florida, October, 2019
- “Improving and Institutionalizing RetainU: Supporting Freshman STEM Student Success”, Presented at the 38th National Conference on the First Year Experience, Las Vegas, Nevada, February, 2019
 - Hosted by the University of South Carolina and the National Resource Center for The First-Year-Experience and Students in Transition
 - Co-hosted by Nevada State College
 - This conference has a proposal vetting process by committee
 - ~ 650 presenters and ~4000 attendees
 - Presentations were an hour long
- “RetainU: A model for supporting Freshman STEM Student Success”, Presented at the 25th National Conference on Students in Transition, Indianapolis, Indiana, October, 2018
 - Hosted by the University of South Carolina and the National Resource Center for The First-Year-Experience and Students in Transition
 - Co-hosted by Indiana University-Purdue University Indianapolis and Indiana Wesleyan University
 - This conference has a proposal vetting process by committee
 - ~ 150 presenters and ~2000 attendees
 - Presentations were an hour long
- Invited proposal reviewer for the 25th National Conference on Students in Transition, Indianapolis, Indiana, August, 2018
- Served on two Calculus Focus groups, 2013 Joint American Mathematical Society/Mathematical Association of America meeting in San Diego
- Served on the Editorial Board of the Mathematical Association of America Bulletin, 08/98 – 05/03)

International Level

- “Issues Involved in a Large Scale Implementation of Web-based Mathematics”, M. Pilant, R. Hall, J. Epstein, Y. Hester, A. Strader, International Conference on Mathematics/Science Education and Technology, 2000, published by the Association for the Advancement of Computing in Education (AACE), p. 334-339, cited by 5

CURRICULUM DEVELOPMENT

- Created, facilitated and led two large face-to-face sections of SCEN 289 (539 students), Fall, 2018
- Created and taught three eCampus seminar courses for all College of Science freshmen with less than 3.0 GPA, 103 students, Spring 2018
- Joint CoS/CoE Curriculum Committee, TAMU, 9/16 to 3/17
- Co-developed web-based interactive modules for Finite Math on the Web, 01/98 - 01/01
- Developed and taught four honors courses with integrated technology for Mathematics through Honors Program funding, TAMU, 05/92 - 12/00
- Developed and taught the pilot courses integrating the graphing calculator into MATH 142, TAMU, 08/93 – 04/94
- Developed curriculum for the technology component for all the Business and Social Science freshman courses (Math 131, 141, 142 and 131), TAMU, 08/93 - 12/00

AWARDS

- Outstanding Service Award, Department of Mathematics, December, 2012
- Five-year service award, Germanna College, May, 2007
- Contribution of Excellence Award, Germanna College, August, 2005
- Teaching Excellence Award, Department of Mathematics, TAMU, May, 1995

FUNDING

- August, 2018, Louis Stokes Alliance for Minority Participation (LSAMP) grant, \$30,000
- August, 2017, Louis Stokes Alliance for Minority Participation (LSAMP) grant, \$30,000
- May, 2012-2115, PI, Instructional Technology grant, \$75,000
- May, 1996, PI - Honors Program course development minigrant, \$4,000
- May, 1994, PI - Honors Program course development minigrant, \$4,000
- May, 1992, PI - Honors Program course development minigrant, second course, \$4,000
- May, 1992, PI - Honors Program course development minigrant, first course, \$4,000

PROFESSIONAL INTERESTS

- Research on, and Implementation of, Student Success Initiatives
- Curriculum and Program Development, Mathematics, Science and Statistics Education
- Mentoring

DISSERTATION

“An Analysis of the Use and Misuse of ANOVA”, Defended October, 2000, Texas A&M University, [cited by 6]

PUBLICATIONS

- Pilant, M., Bollinger, K., Epstein, J., Hall, R., Hester, Y., & Strader, A. (2005). “Finite Math on the Web 2.0”, Brooks/Cole Publishers
- Pilant, M., Bollinger, K., Epstein, J., Hall, R., Hester, Y., & Strader, A. (2002). “Finite Math on the Web”, Brooks/Cole Publisher
- Hester, Y. and Ryan, J. (2000). “Graphing Calculator Manual for Finite Mathematics”, (6th edition), Brooks/Cole Publishers

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Hester, Y. and Ryan, J. (2000). "Using the TI-83/83+ Graphing Calculator in Finite Mathematics", Brooks/Cole Publishers

Hester, Y. and Ryan, J. (2000). "Using the TI-83 Graphing Calculator in College Mathematics", Brooks/Cole Publishers

Hester, Y. and Ryan, J. (2000). "Using the TI-86 Graphing Calculator in Business Calculus", Brooks/Cole Publishers

Hester, Y. and Ryan, J. (1998). "Student Resource Manual for Applied Finite Mathematics", Brooks/Cole Publishers

"A BASIC Program that Computes Probits for Suggesting Optimal Data Transformation", Journal of Educational and Psychological Measurement, Winter, 1993

ERIC PUBLICATIONS (an online library of education research and information, Institute of Education Sciences (IES) of the U.S. Department of Education)

"A Brief Overview of Three Classes of Methods for Detecting Item Bias", Paper presented at the Southwest Educational Research Association (SERA) Conference, January, 1991, San Antonio, TX, [cited by 4]

"A Review of Strategies for Standard Setting and Identifying Cut-off Scores", Paper presented at SERA, January, 1993, Austin, TX

"Least Squares Procedures", Paper presented at SERA, January, 1995, Austin, TX, [cited by 1]

"Mathematical Models Underlying Factor Analysis", Paper presented at SERA, Jan., 1996, New Orleans, LA, [cited by 2]

"Proof of Orthogonality of ANOVA Components", Presented at SERA, January, 1996, New Orleans, LA, ERIC document "Understanding that ANOVA Effects are Perfectly Uncorrelated", 1996, [cited by 2]

CONFERENCE PAPERS

"Issues Involved in a Large Scale Implementation of Web-based Mathematics", M. Pilant, R. Hall, J. Epstein, Y. Hester, A. Strader, International Conference on Mathematics/Science Education and Technology, 2000, published by the Association for the Advancement of Computing in Education (AACE), p. 334-339, [cited by 5]

"Gender Differences in Mathematics, Post-High School", Research Report, August, 1995

"Explaining Data Transformation that Can be Used to Meet Distributional Assumptions", Paper presented at the American Educational Research Association Conference, April, 1992, San Francisco, CA

"Various Approaches to Effect Size Estimation", Paper presented at the American Educational Research Association Conference, April, 1991, Chicago, IL

CONFERENCE PRESENTATIONS

"Improving and Institutionalizing RetainU: Supporting Freshman STEM Student Success, Presented at the 38th National Conference on the First Year Experience, Las Vegas, Nevada, February, 2019

"RetainU: A model for supporting Freshman STEM Student Success", Presented at the 25th National Conference on Students in Transition, Indianapolis, Indiana, October, 2018

"Technology in Liberal Arts Core Courses", annual Virginia Community College Conference hosted by Germanna College (Fredericksburg Area Campus), October, 2001

In-house mini-workshop on using the TI-82 Graphing Calculator in teaching Business Calculus, Department of Mathematics, Texas A&M University, January, 1995, College Station, TX

Mini-workshop/talk on Maple and the TI-82 Graphing Calculator in teaching Business Calculus, Third Annual Technology Conference, Region VI Education Service Center, November, 1994, College Station, TX

PENDING PUBLICATION SUBMISSIONS

- Submitting a paper to the peer reviewed *Journal of College Student Retention: Research, Theory & Practice* in June, 2019

TEACHING ACTIVITIES At TAMU

Course	Description	When (# students)							
MATH 131	Calculus	Fall, Spring 2008 600 students 6 sections							
MATH 141	Finite Math	Fall 2009 (101)							
MATH 142	Business Calculus	Fall 2009 216 students 3 sections	Summer 2011 (50)	Fall 2015 (43)					
MATH 142H	Honors Business Calculus	Fall 2009 (10)	Fall 2010 (16)	Spring 2011 (16)	Spring 2012 (19)	Spring 2013 (10)	Spring 2014 (13)	Spring 2015 (9)	Spring 2016 (11)
MATH 147	Calculus I - Biological Sciences	Fall 2010 180 students 2 sections	Fall 2011 (290) 3 sections	Summer 2013 (9)					
MATH 148	Calculus II - Biological Sciences	Spring 2011 (50)	Summer 2014 (11)	Fall 2015 (62)	Fall 2016 (58)				
MATH 151	Calculus I for Engineers	Summer 2010 (80) 2 sections							
MATH 152	Calculus II for Engineers	Spring 2015 (274) 3 sections							
MATH 285	Technology for Honors Calculus	Fall 2009 (10)	Fall 2010 (16)	Spring 2011 (16)	Spring 2012 (19)	Spring 2013 (10)	Spring 2014 (13)	Spring 2015 (8)	Spring 2016 (11)
MATH 485	Theory behind PLTL	Fall 2016 (1)							
CSLC 001	CoS Learning Community	Spring 2018 (64)							
SCEN 289	Freshman Seminar	Fall 2018 (539)							

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		2 sections							
SCEN 289	eCampus StudySkills/ Reflection Course	Spring 2018 (39)	Spring 2019 (289)						

COURSES TAUGHT ELSEWHERE (Not at TAMU)

Liberal Arts Math I
Liberal Arts Math II
Statistics