

Ryan K. Boettger

Appointments

Academic

Associate Professor, Department of Technical Communication
University of North Texas, 2015–present.

Assistant Professor, Department of Technical Communication
University of North Texas, 2009–2015.

Administrative

Chair, Department of Technical Communication
University of North Texas, 2022–present.

Assistant Chair, Department of Technical Communication
University of North Texas, 2018–2020.

- **Course Scheduling & Staffing.** Coordinated the graduate, undergraduate, and certificate course schedules for each academic semester; monitored enrollment to recommend changes to the Chair; recruited teaching fellows and adjunct instructors.
- **Program Administration.** Chaired the undergraduate studies committee, managed and implemented all programs related to retention and recruitment; reviewed and managed department proposals and activities in the curriculum management system; coordinated requests for other departments for consults about proposed activities; coordinated student learning objectives for accreditation; recruited and advised all graduate students; coordinated admissions with the graduate school; facilitated moving all service courses online during the COVID-19 pandemic, ensuring curriculum consistency and monitoring student engagement/well-being; individual efforts recognized by college dean and university provost.
- **Pedagogical Support & Training.** Evaluated teaching fellows and adjunct instructors annually, mentored new lecturers and tenure-track faculty.
- **Program & Course Coordination.** Coordinated lower-division course textbook needs, emailed weekly updates to lower-division instructors, assured curriculum and policy compliance, developed and led lower-division course orientations.

Director of Lower-Division Service Courses, Department of Technical Communication
University of North Texas, 2015–2017.

- Supervised, mentored, and supported 25 teaching fellows, adjunct instructors, and lecturers who delivered core courses to 2,500 undergraduates per year.
- Maintained curriculum consistency across the department's three service courses.
- Chaired a 9-person curriculum committee of tenure-system faculty, lecturers, and teaching fellows.

Director of Graduate Studies, Department of Technical Communication
University of North Texas, 2012–2015.

- Scheduled classes, created degree plans, and advised around 30 students enrolled in the M.A. and certificate programs in technical communication.
- Facilitated a 26.6% enrollment increase in technical communication, the only M.A. program in the College of Arts and Sciences to register growth.
- Developed the certificate in Teaching Technical Writing, which trains academics who specialize in an outside subject area (literature, creative writing, and cultural studies).
- Created policies centered on recruitment and retention, including a policy that waives the GRE for academically exceptional undergraduates and prioritizes them for funding.

Editorial

Editor

Wiley-IEEE Press Series in *Professional Engineering Communication*, 2017–2020.

- Maintained the quality of an 18-book series on professional communication in the sciences and engineering.
- Solicited manuscripts and coached prospective authors in proposal development and publication processes.
- Wrote a “Note from the Series Editor” for forthcoming titles.
- Featured in *Supply & Demand Chain Executive* [<https://tinyurl.com/yddsjeoo>].
- PSC Society review highlighted the series’ contributions to the field, its growth during my editorship, and its positive net revenue.¹

Deputy Editor-in-Chief

IEEE Transactions on Professional Communication, 2015.

- Co-led the peer-review process of all journal submissions.
- Coached authors on manuscript revisions.

Related

Managing Director, Grant Proposal & Program Development

Laura W. Bush Institute for Women’s Health (Lubbock Campus)—*Texas Tech University Health Sciences Center*, 2008–2009.

- Edited grants that sought \$8.75 million in funding from agencies such as the National Institutes of Health and the US Department of Agriculture.

Technical Editor

Texas Army National Guard, 2005–2010.

- Assisted in the editing of 5 Integrated Natural Resources Management Plans and 5 Integrated Wildland Fire Management Plans for various Texas Army bases and 1 Integrated Cultural Resource Management Plan for the Environmental Office; each plan ran between 300-325 pages.

¹ TAB Society and Council Review Communication Report of the Professional Communication Society. Institute of Electrical and Electronics Engineers, Inc. 15 June 2021.

Refereed Journal Articles

[13] Friess, Erin & Boettger, Ryan K. (2021). Identifying commonalities and divergences between technical communication scholarly and trade publications (1996–2017). *Journal of Business and Technical Communication*, 35(4), 407–432.

[12] Boettger, Ryan K. & Friess, Erin (2020). Content and authorship patterns in technical communication journals (1996–2017)—A quantitative content analysis. *Technical Communication*, 67(3), 239–252.

Received the Frank R. Smith Award for Outstanding Journal Article

[11] Boettger, Ryan K. & Wulff, Stefanie (2019). Gender effects in student technical writing—a corpus-based study. *IEEE Transactions on Professional Communication*, 62(3), 239–252.

[10] Boettger, Ryan K. & Emory Moore, Lindsay (2018). Analyzing error perception and recognition among professional communication practitioners and academics. *Business and Professional Communication Quarterly*, 81(4), 462–484.

[9] Boettger, Ryan K. & Friess, Erin (2016). Academics are from Mars, practitioners are from Venus: Analyzing content alignment within technical communication forums. *Technical Communication*, 63(4), 314–327.

[8] Boettger, Ryan K. (2016). Using corpus-based instruction to explore writing variation across the disciplines: A case history in a graduate-level technical editing course. *Across the Disciplines*, 13(1).

[7] Boettger, Ryan K. (2014). Explicitly teaching five technical genres to English first-language adults in a multi-major technical writing course. *Journal of Writing Research*, 6(1), 29–59.

[6] Boettger, Ryan K. (2014). The technical communication editing test: Three studies on this assessment type. *Technical Communication*, 61(4), 215–231.

[5] Boettger, Ryan K. & Wulff, Stefanie (2014). The naked truth about the naked *this*: Investigating grammatical prescriptivism in technical communication. *Technical Communication Quarterly*, 23(2), 115–140.

[4] Boettger, Ryan K. & Lam, Chris (2013). An overview of experimental and quasi-experimental research in technical communication (1992–2011). *IEEE Transactions on Professional Communication*, 56(4), 272–293.

[3] Boettger, Ryan K. (2012). Types of errors used in medical editing tests. *American Medical Writers Association Journal*, 27(3), 99–104.

[2] Boettger, Ryan K. (2010). Rubric use in technical communication: Exploring the process of creating valid and reliable assessment tools. *IEEE Transactions on Professional Communication*, 53(1), 4–17.

[1] Boettger, Ryan K. & Palmer, Laura A. (2010). Quantitative content analysis: Its use in technical and professional communication. *IEEE Transactions on Professional Communication*, 53(4), 346–357.

Funded Research Awards

[6] Boettger, Ryan K. (PI); Wulff, Stefanie; Hoeninghaus, David; and Ludi, Stephanie (2017–2020). Collaborative research: Evaluating a data-driven approach to teaching technical writing to STEM majors, **\$295,246**: National Science Foundation (#1708360/#1708362).

- Funding rate in DUE program for FY 2017 was 26%².
- Taught 374 students seven data-driven unit emphasizing the writing patterns specific their respective disciplines.
- Collected 4,488 student-written texts from biology, fish ecology, computer science, and advanced technical writing courses.
- Currently cleaning/anonymizing texts for public use and annotating them with 26 metadata related to text type, student writer, and course. Metadata allows users to drill down data and identify the texts most relevant to their needs.
- Published 5 scholarly articles and given 6 presentations/workshops on data.
- Preliminary results suggest students improved their writing because of the DDL. Interestingly, growth in performance was robust from low- and high-performing students (i.e., D-grade students and A-grade students made the most gains in writing improvement). Over the course of the semester, we observed a pattern that suggested participants were applying the language patterns in meaningful ways that reflected revision rather than simply an increase in frequency. We also observed that the effect of the DDL in terms of how much revision took place varied among the language patterns. We are currently segmenting the data sample based on the course to measure the effects of the DDL more narrowly.
- Results from student satisfaction survey showed participants enjoyed the data-driven learning (M = 3.42/4) and understood the purpose of engaging in learning about grammar as part of their STEM coursework (M = 3.42). Further, most participants believed their general writing improved because of the DDL (M = 3.17) and that they would use the related skills in their future writing (M = 3.33).
- Access all data-driven lesson materials and instructional videos at <http://technicalwritingproject.com/resources>
- Download visual representation of study's design, implementation, and preliminary results at <https://tinyurl.com/trkzx89y>

[5] Boettger, Ryan K. (2013). A corpus-driven analysis of STEM students' technical vocabularies, **\$3,700**: University of North Texas Research Enabling Grant.

[4] Boettger, Ryan K. (2012). Developing and evaluating a data-driven learning model for improving undergraduates' technical writing skills, **\$5,000**: University of North Texas Junior Faculty Research Fellowship.

[3] Wulff, Stefanie & Boettger, Ryan K. (2012). When textbooks meet language in use: A contrastive study of student technical writing, **\$7,340**: University of North Texas Research Initiative Grant.

² <https://dellweb.bfa.nsf.gov/awdftr3/default.asp>

- [2] Boettger, Ryan K. & Wulff, Stefanie (2011). A linguistic approach to assessing the vocabulary richness of student technical writing, **\$3,800**: University of North Texas Research Initiative Grant.
- [1] Wulff, Stefanie & Boettger, Ryan K. (2011). TechCorp pilot: Creating a databank of student technical writing, **\$6,500**: University of North Texas Research Initiative Grant.

Refereed Conference Proceedings

- [8] Boettger, Ryan K. & Wulff, Stefanie (2019) Teaching STEM undergraduates discipline-specific writing skills: A data-driven learning approach. *American Society for Engineering Education Annual Conference and Exposition*. Tampa, FL.
- [7] Boettger, Ryan K., Lam, Chris & Palmer, Laura (2017). Improving the data information literacies of technical communication undergraduates. *Proceedings of ProComm, IEEE Professional Communication Conference*, Madison, WI.
- [6] Lam, Chris & Boettger, Ryan K. (2017). An overview of research methods in technical communication journals (2012–2016). *Proceedings of ProComm, IEEE Professional Communication Conference*, Madison, WI.
- [5] Boettger, Ryan K. & Wulff, Stefanie (2016). Using authentic language data to teach discipline-specific writing patterns to STEM students. *Proceedings of ProComm, IEEE Professional Communication Conference*, Austin, TX.
- [4] Boettger, Ryan K., Friess, Erin, & Carliner, Saul (2015). Update on who says what to whom? Assessing the alignment of content and audience between scholarly and professional publications in technical communication (1996–2013). *Proceedings of ProComm, IEEE Professional Communication Conference*, Limerick, Ireland.
- [3] Boettger, Ryan K. & Friess, Erin (2014). What are the most common title words in technical communication publications? *Proceedings of the IEEE 2014 Professional Communication Conference*, Pittsburgh, PA.
- [2] Boettger, Ryan K., Friess, Erin, & Carliner, Saul (2014). Who says what to whom? Assessing the alignment of content and audience between scholarly and professional publications in technical communication (1996–2013). *Proceedings of the IEEE 2014 Professional Communication Conference*, Pittsburgh, PA.
- [1] Boettger, Ryan K. (2011). Examining error in the technical communication editing test. *Proceedings of the 58th Annual STC Summit*, Sacramento, CA.

Other Publications

- [2] Boettger, Ryan K. (2019). “How does that make you feel?”: The psychological dimensions of editorial comments in *Editing in the Modern Classroom*, Suzan Flanagan and Michael J Albers, Eds. ATIW Series in Technical and Professional Communication: Routledge, 47–65.

- [1] Boettger, Ryan K. & Ishizaki, Suguru (2018). Guest editorial—Introduction to the special issue: Data-driven approaches to research and teaching in professional and technical communication. *IEEE Transactions on Professional Communication*, 61(4), 1–4.

Unpublished Conference Presentations

- [12] The role of data-driven learning in STEM education courses (with Stefanie Wulff), *STEMPowered Symposium*. Gainesville, FL, 2018.
- [11] Passive voice in student technical writing: Gender or genre? (with Stefanie Wulff), *The 5th Annual Conference on Writing Analytics*. St. Petersburg, FL, 2018.
- [10] Helping your members build writing and presentation skills, *IEEE Sections Congress*. Sydney, Australia, 2017 [<https://tinyurl.com/yatt6r3v>].
- [9] The Technical Writing Project: Bringing corpus data into the technical writing classroom (with Stefanie Wulff), *The 4th Annual Conference on Writing Analytics*. St. Petersburg, FL, 2017.
- [8] The presence of professionalism in technical communication: Views from industry and the academy (with Erin Friess). *IEEE International Professional Communication Conference*. Austin, TX, 2016.
- [7] Introducing the Technical Writing Project (with Stefanie Wulff). *American Association for Corpus Linguistics Conference*. Ames, IA, 2016.
- [6] Learning from our “mistakes”: How technical communicators prioritize and perceive usage error. *Society for Technical Communication’s Technical Editing Virtual Conference*. 2012.
- [5] Client projects for 21st century technical editors. *Council for Programs in Technical and Scientific Communication Conference*. Harrisburg, VA, 2011.
- [4] Writing and editing grants at the university level: Opening teaching and research opportunities using technical communication skills (with Angela Eaton). *Association of Teachers of Technical Writing Conference*. Louisville, KY, 2010.
- [3] An empirical approach to evaluating a genre-based pedagogy. *Association of Teachers of Technical Writing Conference*. New York, NY, 2007.
- [2] Integrating quantitative content analysis into technical communication scholarship (with Laura Palmer). *Rocky Mountain Modern Language Association Conference*. Phoenix, AZ, 2006.
- [1] Toward a nomenclature of style: Modal use in freshman writing. *College Composition and Communication Conference*. San Francisco, CA, 2005.

Invited Workshops, Roundtables, and Presentations (Selected)

- [10] Editor’s roundtable, *Council for Programs in Technical and Scientific Communication Conference*. Minneapolis, MN, 2018.

- [9] Do you want it fast, good, or cheap?: Engineering your technical message for any audience, IEEE Montréal Section. Montréal Quebec Canada, 2018.
- [8] Are we missing the boat? A roundtable discussion on research methods and how they define our field (with Erin Friess, Kim Sydow Campbell, and Chris Lam), *ProComm: IEEE International Professional Communication Conference*. Madison, WI, 2017.
- [7] Quantitative content analysis. *The Association of Teachers of Technical Writing Research Methods Workshops*. Portland, OR, 2017.
- [6] Integrating data-driven learning into the technical writing classroom (with Stefanie Wulff and Laurence Anthony). *ProComm: IEEE International Professional Communication Conference*. Austin, TX, 2016.
- [5] Granting in clinical health psychology. Health Psychology Research Group, Department of Psychology, University of North Texas. 2015.
- [4] How do we adapt the traditional research article so it's relevant to the practicing professional? (with Saul Carliner and Erin Friess). *IEEE 2014 International Professional Communication Conference*. Pittsburgh, PA, 2014.
- [3] Errors in judgment: Comparing academics' and practitioners' perceptions of usage error, Lone Star Chapter for the Society for Technical Communication. 2013.
- [2] The IMR&D structure: Strategies for writing successful engineering papers. Summer Undergraduate Program in Engineering Research, University of North Texas College of Engineering. 2011.
- [1] TechCorp: Building a corpus of student technical writing. College of Arts and Sciences General Faculty Meeting, University of North Texas. 2011.

Education

Graduate Academic Certificate, Teaching English to Speakers of Other Languages, *Pennsylvania State University*, 2015.

Ph.D., Technical Communication and Rhetoric, *Texas Tech University*, 2008.

Dissertation: *Making the case for explicit teaching: evaluating a genre-centered pedagogy in the introductory technical communication classroom*.

Directed by Angela Eaton with Ken Baake and Susan Lang.

M.A., Technical Communication, *Texas Tech University*, 2004.

B.A., Communication, *University of Texas at San Antonio*, 2002.

Courses Taught

Graduate

- Editing Technical Documents
- Grants and Proposals *
- Content Analysis *

- Principles of Technical Communication
- Studies in the Teaching of Technical Communication *
- Writing the Dissertation and for Publication
- Writing in Professional Settings

Undergraduate

- Advanced Technical Writing *
- Content Analysis *
- Introduction to Professional, Science, and Technical Writing
- Professional Report Writing
- Technical Editing
- Technical Manuals
- Technical Writing *
- Writing Grants and Proposals
- Writing in the Sciences

* Denotes online courses I have developed and taught (also taught the face-to-face versions).

Mentoring/Advising

[2] Heidler, Linda (M.A., Linguistics). M.A. Thesis Committee Member for *NNS use of adverbs in academic writing*, 2010–2011.

[1] Kraha, Amanda (Ph.D., Experimental Psychology). Grant reviewer as part of UNT Graduate Student Research Grant award for NSF submission, *Positive flashbulb memories for the assassination of Osama bin Laden*, 2011.

Grants Awarded from TECM 5170 (Grants and Proposals)

To date, graduate students who completed this course have written grants that have resulted in almost \$80,000 funds or multi-year tuition scholarships and business sponsorships.

- [30] Bedford, Lee (2016, Ph.D. Experimental Psychology), Raupe Travel Grant, University of North Texas, **\$750**.
- [29] Bedford, Lee (2016, Ph.D. Experimental Psychology), Sport Clips Help a Hero Scholarship, **\$5,000**.
- [28] Cloutier, Renee (2016, Ph.D., Experimental Psychology), Ruth L. Kirschstein National Research Service Award training fellowship [first author] National Institute on Drug Abuse, **\$65,758**.
- [27] Riccardelli, Charlie (2016, Ph.D Creative Writing), Fiolmena J. Perloro Scholarship, **\$5,000**.
- [26] Liu, Keke "Carmen" (2015, Ph.D., Experimental Psychology), Robert H. and Jimmie G. Nobels Scholarship, **\$1,000 plus one year of in-state tuition**.
- [25] Peters, Clinton (2015, Ph.D., Creative Writing), Graduate Student Support Grant, College of Arts and Sciences, University of North Texas, **\$400**.
- [24] Peters, Clinton (2015, Ph.D., Creative Writing), Mary Patchell Scholarship, Department of English, University of North Texas, **\$500**.
- [23] Peters, Clinton (2015, Ph.D., Creative Writing), Rusty Duncan Scholarship, Department of English, University of North Texas, **\$200**.
- [22] Ponce, Timothy (2015, Ph.D., English), Elizabeth Lomax Memorial Presidential Scholarship, Department of English, University of North Texas, **\$200**.
- [21] Ponce, Timothy (2015, Ph.D., English), Mary Patchell Scholarship, Department of English, University of North Texas, **\$500**.
- [20] Ponce, Timothy (2015, Ph.D, English), Pearla Irene Marquez Memorial Scholarship in Medieval and Renaissance Studies, Department of English, University of North Texas, **\$200**.
- [19] Tatum, Brian (2015, Ph.D., English), Mary Patchell Scholarship, Department of English, University of North Texas, **\$500**.
- [18] Tatum, Brian (2015, Ph.D., English), Robert Liddell Lowe Scholarship in English, Department of English, University of North Texas, **\$200**.
- [17] Willy, Kaitlyn (2015, Ph.D., English Literature), Mary Patchell Scholarship, Department of English, University of North Texas, **\$500**.
- [16] Ng, Monica (2014, M.A., Professional and Technical Communication), Dollar General Literacy Foundation Adult Literacy Grant, **\$8,000**.

- [15] Moore, Lindsay (2013, Ph.D., English), College of Arts and Sciences Student Support Grant, University of North Texas, **\$450**.
- [14] Moore, Lindsay (2013, Ph.D., English), Graduate Assistantship Tuition Scholarship, University of North Texas, award covers all tuition and fees for the 2013-2104 AY.
- [13] Moore, Lindsay (2013, Ph.D., English), Craig B. Raupe Memorial Travel Grant, University of North Texas Student Government Association, **\$750**.
- [12] Moore, Lindsay (2013, Ph.D., English), Edward Liddell Lowe Scholarship in English, Department of English, University of North Texas, **\$500**.
- [11] Ng, Monica (2013, M.A., Professional and Technical Communication), Cobb, Greenwell, Sebastian Technical Communication Scholarship, Department of Linguistics and Technical Communication, University of North Texas, **\$1,175**.
- [10] Russell, Jordan (2013, M.A., Professional and Technical Communication), Cobb, Greenwell, Sebastian Technical Communication Scholarship, Department of Linguistics and Technical Communication, University of North Texas, **\$1,175**.
- [9] Schuth, Megan (2013, M.A., Professional and Technical Communication). Factory Mutual Global Fire Prevention Grant, **\$2,000**.
- [8] Faubion, Victoria (2012, Ph.D., Environmental Science). The Outdoor Nation Foundation, **\$2,500**.
- This grant resulted in multiple sponsorships —
- The North Face donated \$250 of outdoor gear and clothing and an iPad.
 - Merrell donated \$250 of clothing and provided participants with a voucher for a free pair of shoes.
 - Logic Designs donated time and equipment to design the North Texas Kids Outside logo.
 - North Texas Graphics donated time, material, and equipment for T-shirts and stickers for participants and volunteers.
 - REI's Charles Blaum donated 100 water bottle, 100 nature journals, and over 50 coupons (from REI Plano).
 - City of Dallas Storm Water Management donated 20 reusable, hand-crank flashlights and educational materials.
- [7] Hoffman, Briana. (2012, M.A., Professional and Technical Communication). Society for Technical Communication Traditional Education Scholarship, **\$1,000**.
- [6] Southard-Dobbs, Shana (2012, Ph.D., Experimental Psychology). American Psychological Association of Graduate Students Teaching Excellence in Psychosocial Science Award, **\$500**.
- [5] Klein, Carrie (2010, M.A., Professional and Technical Communication). Denton Public School Foundation, **\$1,000**.
- [4] Klein, Carrie (2010, M.A., Professional and Technical Communication). Society for Technical Communication Traditional Education Scholarship, **\$750**.

- [3] Kraha, Amanda (2010, Ph.D., Experimental Psychology). American Psychological Association of Graduate Students Award, **\$1,362.81**.
- [2] Kraha, Amanda (2010, Ph.D., Experimental Psychology). University of North Texas Graduate Student Research Grant, **\$500**.
- [1] Mims, Tina (2010, Ph.D., Marketing and Logistics), University of North Texas Social Science Research Council Pre-dissertation Fellowships, **\$1,500**.

Service

To Discipline

Editorial

- Editorial Board Member, *Technical Communication Quarterly*, 2018–present.
- Manuscript Reviewer, 2010–present.
Evaluate quality of manuscript submissions for multiple journals, including *Journal of Business and Technical Communication*, *IEEE Transactions on Professional Communication*, *Technical Communication*, *Technical Communication Quarterly*, *Business and Professional Communication Quarterly*, *English for Specific Purposes*, and *International Journal of Learner Corpus Research*.
- Guest Editor, *IEEE Transactions on Professional Communication*'s special issue on data-driven approaches to research and teaching in professional and scientific communication, December 2018 (with Suguru Ishizaki).
- Board of Permanent Reviewers, *IEEE Transactions on Professional Communication*, 2011–2017.

Leadership & Advisory

- External Reviewer, 2016–present
Evaluate merits of external candidates for tenure and promotion; reviewed 5 cases to date.
- Co-Program Chair, Conference for the Council for Programs in Technical and Scientific Communication (on-site conference canceled because of COVID-19 pandemic), 2020.
- Advisory Board Member, IEEE Professional Communication Society, 2017–2020.

To Department

Faculty Evaluation

- Chair, Promotion and Tenure Committee, 2016–2017, 2020–present.
- Member, Promotion and Tenure Committee, 2015–2017, 2019–present.
- Chair, Reappointment, Promotion, and Tenure Committee, 2019–2020.
- Member, Reappointment, Promotion, and Tenure Committee, 2015–present.

Curriculum & Student Support

- Coordinator, Advanced Technical Writing (TECM 4180), 2019–present.
- Chair, Scholarship Committee, 2019–2020.
- Member, MATC Comprehensive Exam Evaluator, 2010–2014, 2019, 2021.
- Chair, Graduate Committee, 2012–2015.
- Interim Member, Graduate Committee, 2011.

Search Committee

- Member, for assistant professor, 2011, 2015, 2016, 2017, and 2018.
- Member, for department chair, 2015–2016.
- Member, for lecturers, 2011, 2014, 2015.
- Co-Chair, for assistant professor, 2010.

Other

- Content Manager and Administrator for department CMS, 2011–2014.
- Department election judge, 2014–2016.
- Member, Executive Committee, 2011–present.

To University

Elected Committees

- Member, Graduate Curriculum Committee, College of Arts and Sciences University of North Texas, 2015–2017.
- Member, Online Catalog Committee University of North Texas, 2010–2011.