Communication Design Quarterly’s Statement on Inclusivity and Ethical Data Visualization

Communication Design Quarterly invites work by authors of all ethnicities, colors, faith identifications, genders and sexualities, abilities, and levels of academic and professional expertise. Work will be considered for publication based on its potential value to our readership population, as primarily illustrated by members of the Association for Computing Machinery’s Special Interest Group for Design of Communication (ACM SIGDOC), and the article’s methodological, intellectual, and ethical rigor, as appropriate. Submissions will be assessed by peer-reviewers chosen by the Editor based on how potential reviewer’s expertise relate to the submitted work’s area of focus.

Communication Design Quarterly is committed to publishing inclusive and ethical work, and expects that any work on or with human subjects meets Institutional Review Board or Ethics Board approval, as appropriate. We also respectfully request that authors consider the ethical implications of data visualization, including accessibility issues.

Many articles in Communication Design Quarterly are fundamentally based in examination of visuals created by a person or persons external to the author(s), contain visuals created by a person or persons external to the author(s), contain visuals created by the author(s) or in service to the author(s) work, or some combination of the above. We ask that, as authors, you please respect the rights, needs, and expectations of those whom you portray in your work. We also ask that you respect the rights, needs, and expectations of your audience.

We at Communication Design Quarterly recognize that this statement cannot address all potential vulnerabilities, but ask that you, as readers, authors, and editors in your own right, carefully consider the implications of your work for those whom it engages as both subject and audience.

Communication Design Quarterly invites work by authors of all ethnicities, colors, faith identifications, genders and sexualities, abilities, and levels of academic and professional expertise. Work will be considered for publication based on its potential value to our readership population, as primarily illustrated by members of the Association for Computing Machinery’s Special Interest Group for Design of Communication (ACM SIGDOC), and the article’s methodological, intellectual, and ethical rigor, as appropriate. Submissions will be assessed by peer-reviewers chosen by the Editor based on how potential reviewer’s expertise relate to the submitted work’s area of focus.

Communication Design Quarterly is committed to publishing inclusive and ethical work, and expects that any work on or with human subjects meets Institutional Review Board or Ethics Board approval, as appropriate. We also respectfully request that authors consider the ethical implications of data visualization, including accessibility issues.

Many articles in Communication Design Quarterly are fundamentally based in examination of visuals created by a person or persons external to the author(s), contain visuals created by a person or persons external to the author(s), contain visuals created by the author(s) or in service to the author(s) work, or some combination of the above. We ask that, as authors, you please respect the rights, needs, and expectations of those whom you portray in your work. We also ask that you respect the rights, needs, and expectations of your audience.

We at Communication Design Quarterly recognize that this statement cannot address all potential vulnerabilities, but ask that you, as readers, authors, and editors in your own right, carefully consider the implications of your work for those whom it engages as both subject and audience.

Communication Design Quarterly invites work by authors of all ethnicities, colors, faith identifications, genders and sexualities, abilities, and levels of academic and professional expertise. Work will be considered for publication based on its potential value to our readership population, as primarily illustrated by members of the Association for Computing Machinery’s Special Interest Group for Design of Communication (ACM SIGDOC), and the article’s methodological, intellectual, and ethical rigor, as appropriate. Submissions will be assessed by peer-reviewers chosen by the Editor based on how potential reviewer’s expertise relate to the submitted work’s area of focus.

Communication Design Quarterly is committed to publishing inclusive and ethical work, and expects that any work on or with human subjects meets Institutional Review Board or Ethics Board approval, as appropriate. We also respectfully request that authors consider the ethical implications of data visualization, including accessibility issues.

Many articles in Communication Design Quarterly are fundamentally based in examination of visuals created by a person or persons external to the author(s), contain visuals created by a person or persons external to the author(s), contain visuals created by the author(s) or in service to the author(s) work, or some combination of the above. We ask that, as authors, you please respect the rights, needs, and expectations of those whom you portray in your work. We also ask that you respect the rights, needs, and expectations of your audience.

We at Communication Design Quarterly recognize that this statement cannot address all potential vulnerabilities, but ask that you, as readers, authors, and editors in your own right, carefully consider the implications of your work for those whom it engages as both subject and audience.
A Brief History of CDQ

Communication Design Quarterly (CDQ) is the journal-format, peer-reviewed publication managed by SIGDOC, the Association for Computing Machinery (ACM)’s Special Interest Group on Design of Communication. The email-only newsletter that would become CDQ published its first issue in March 2001, and since then, more than 17 volumes, each containing approximately 4 issues, have been published.

Prior to 2001, SIGDOC had a peer-reviewed journal entitled Journal of Computer Documentation, which continued from 1988 to 2002. When it became difficult to find contributors, the journal shut down. The chair of ACM at the time, Kathy Haramundanis, asked SIGDOC board member Robert Pierce to write a quarterly newsletter as a subscription service to SIGDOC members because he was in the technical communication industry rather than academia, and his views would offer valuable industry/academic crossovers.

The original purpose of Robert Pierce’s newsletter was to give the members of SIGDOC something more than a website and yearly conference. Pierce wrote mostly from experience, and the newsletter was not peer-reviewed or research-based. Common topics included software development, user experiences, change management, content design, customer feedback, and information development and delivery.

In September 2012, Liza Potts and Michael Albers transitioned the newsletter to a more stable online format and volume numbering was restarted with Volume 1. It was given the name Communication Design Quarterly and began to solicit research-based papers and peer-reviewed articles. Because Liza Potts has a background in research on advocacy for women in the technical communication field, the publication took on a new objective in social justice and cultural awareness in technical communication.

In 2018, CDQ began its Online First publication model, allowing your work to become accessible in a more timely fashion. While CDQ retains its traditional focus on the ways we engage with, produce, and distribute information, we also welcome your work on accessibility, equality, social justice, and cultural awareness in communication design. If you would like to publish in Communication Design Quarterly, please contact Dr. Derek G. Ross at derek.ross@auburn.edu.
What is “Obamacare”?: Health Literacy, E-Commerce, and the Affordable Care Act’s Online Content  
Dawn S. Opel  
This study audits and analyzes the online content provided by the U.S. government for The Patient Protection and Affordable Care Act (ACA). In order to both educate Americans about the ACA and enroll those who needed insurance into plans offered by the U.S. and/or state governments, policy analysts, communication designers, and web developers at the U.S. Department of Health and Human Services (HHS) and the Centers for Medicare and Medicaid Services (CMS) created and published a substantial array of online content. These policy statements, infographics, blog posts, videos, forms, and other resources were designed to engage the public and translate the complexities of the ACA into usable information for patients. However, a content audit and analysis of ACA-related online content reveals the ways that this content did not provide a navigational structure for patients newly insured (or already insured) to find them, as well as additional disclosure of investigational interpretations regarding the benefits and risks of new or experimental therapies. Experts in biomedical writing believe that these materials require additional attention to meet reader needs, an endeavor that falls well within the traditional bailiwick of technical communication. Technical communicators who understand information gathered in regulated bio-medical research should be able to improve the general accessibility of this complex information for a general readership; however, knowledge of regulatory practices is a gap in this group.

Cross-Cultural Whistle-Blowing in an Emerging Outbreak: Revealing Health Risks through Tactic Communication and Rhetorical Hijacking  
Huiling Ding  
How do whistleblowers reveal critical issues unknown to the public during emerging epidemics to push for policy changes? Using a case study about a medical care worker (MCW) whistleblower in China during the SARS outbreak of 2003, this paper examines the ways whistleblowers navigate through complicated networks of power and mediascape to disseminate critical risk messages and call for changes.

We invite you to contribute in any of the following areas:

Original Research  
Articles that cross disciplinary boundaries as they focus on effective and efficient methods of designing and communicating information.

Experience Reports  
Reports presenting project- or workplace-focused summaries of important technologies, techniques, methods, pedagogies, or product processes.

Book Reviews  
Short reviews of books you think may be of interest to the communication design field. Please query ahead of time before sending.

Submission Guidelines  
Format all manuscripts for publication consideration according to the following guidelines:

Abstract 100 words.

Keywords 3–5 words that will help readers locate your article.

Length 6,000 to 8,000 words (not including “References” or Appendices). Individuals can submit slightly longer or slightly shorter manuscripts, but they should contact the CDQ editor before submitting such slightly longer or slightly shorter entries.
accepted for publication will submit image files separately for layout, and receive additional formatting guidelines for visuals upon notice of acceptance).

- Identify all visual elements (e.g., tables, graphs, charts, and figures) via a corresponding, descriptive label (e.g., Table 1, Figure 1, etc.).

- Provide a corresponding descriptive caption for each visual element and format captions (e.g., Table 1: Sample Table Entry).

- Provide a corresponding in-text reference for each visual element and format (e.g., The researchers collected extensive data on this topic [see Table 1]). For any visual elements that are not the author’s own creation, the author must have the express, written permission of the related copyright holder to include the visual element in the manuscript at the time the manuscript is submitted for initial consideration, and provide a corresponding citation or reference noting the origin of the visual element (e.g., Figure 1: Example Interface for Reference [Smith, 2014]).

**For more information on submissions of articles, reports, or research results, contact Dr. Derek G. Ross at derek.ross@auburn.edu.**

For queries about book reviews, please contact Dr. Avery C. Edenfield at avery.edenfield@usu.edu.

### Communication Design Quarterly's new Online First model allows cutting-edge research to be published in a timely fashion. As articles are accepted, CDQ will publish an online-accessible version of the article, accompanied by an individual pdf and a DOI (digital object identifier), on the CDQ website.

Here are a few of the articles that we have published Online First.

**Game Design Documentation: Four Perspectives from Independent Game Studios**

---

**Usability Testing for Oppression**

Joseph Bartolotta

This study examines a document produced by the United States Department of Homeland Security handed out to immigrant parents during the “Family Separation Policy” crisis of 2018. The article examines whether such a document could be ethically tested for usability. Ultimately, the text argues that by the standards of the Belmont Report and the best practices in usability research, such a document would be extremely difficult (if not impossible) to test ethically. It argues that, while usability testing is an excellent tool for exploring how users interact with texts that can have life-changing consequences, it may also be used as a tool to perpetuate injustice and marginalize potential users.

### Contextual Cropping, Collateral Data: Screenshot Methods of UX Research

Cody Reimer

Changes in technology, development philosophy, and scale have required game designers to change how they communicate and mediate design decisions. Traditional game design studios used an extensive game design document (GDD), a meta-genre that described most of the game before it was developed. Current studies suggest that this is no longer the case. We conducted interviews at four independent for localized information for decision-making.

### How to be Open: User Experience and Technical Communication in an Emerging Game Development Methodology

Luke Thominet

This study builds a model of open video game development, an emerging user-centered design practice where a developer publicly releases an incomplete game and iterates on it while gathering feedback from the player community. It argues that open development is fundamentally a communication and user experience practice characterized by a commitment to access, transparency, and feedback. Ultimately, it shows open development as a practice where game developers are consciously designing a compelling experience of participation in user research.

### Site Identity, Artifact Duplication, & Disambiguation in Alabama Local Emergency Management Agencies (LEMA)

Susan A. Youngblood

Local Emergency Management Agencies (LEMAs) are vital components of the U.S. National Incident Management System (NIMS). As such, their official digital presences need to be identifiable as official and should not have to compete with other digital artifacts, including web pages and whole sites, that can be mistaken for official presences. After exploring the nature of digital identity, this study examines the prevalence of competing digital artifacts and the common sources of these...
make to healthcare providers. Usability claims appear as statements that persuade users to adopt the interface based on usability or user experience. These claims may show what healthcare providers are presumed to require from online health technologies. Usability claims in this study included intuitive interfaces, adaptability of documentation and records, and supplementing patient communication. Analyzing usability claims then becomes a way of understanding health-care providers, their patients, and the technologies both use for health communication.

Is Good Enough Good Enough?: Negotiating Web User Value Judgments of Small Businesses Based on Poorly Designed Websites
Heidi L. Everett

This article explores whether amateur Web designs would deter Web users from engaging with a business after viewing a website—and if their expectations and value judgments are influenced by business size and scope. This topic is important to small business owners, to small business owners, practitioners, and educators because credibility judgments by Web visitors may be quick and detrimental to a small business if they do not yield a positive response and subsequent engagement with the small business. This study provides an opportunity to broaden our understanding of Web visitor credibility judgments about small businesses and introduces a new thread to relate to the rhetoric of the Internet.

Not a Cape, but a Life Preserver: The Importance of Designer Localization in Interactive Sea Level Rise Viewers
Daniel P. Richards

Interactive sea level rise view-ers (ISLRVs) are an increasingly popular risk communication technology designed to help users visualize the effects of water inundation on their region so as to facilitate more prudent decision-making. Designed by and for a variety of stakeholders, these viewers generally have as their goal affording users a more “localized” experience with climate change and sea level rise data, allowing users to explore as specific as street-level the effects of rising waters in coastal regions. While the rise of these tools mirrors the trend in risk communication scholarship to wards more localized messaging, there is still more work to be done in terms of providing a more localized user experience for a broader public audience. This article presents the results of a user experience study conducted with 12 residents of a coastal region, the results of which formulate an attempt to develop more insight into techniques for designer localization. The article concludes with concrete recommendations for scholars and practitioners concerned with designing more effective interactive risk communication technologies that respond to the public need for content customization in order to share their game design documentation processes, revealing that, while an exhaustive GDD is rare, the meta-genre functions are preserved in a variety of mediated ways.

Testing the Difference Between Appearance and Ability Customization
Ryan Rogers & Laura Dunlow

Gaming literature largely treats customization as a monolithic concept. This article provides three experiments that test the differences between appearance customization and ability customization. While these three studies provided a degree of replication, they examined between 105 and 147 college students in three different video game scenarios (no game play, non-human avatar, and difficult game). While the results varied slightly based on the scenario, evidence emerged that appearance customization was more likely than ability customization to enhance participant attitude toward the game and likelihood to spend money on the game. The findings of these studies should inform the types of customization used in a variety of domains and should provide guidance on the design process to offer simple and cost-effective methods to improve sales and attitudes toward content. Specifically, appearance customization is a more effective way for organizations to influence users.

Reducing Harm by Designing Discourse and Digital Tools for Opioid Users’ Contexts: The Chicago Recovery Alliance’s Community-Based Context of Use and PowerdBy’s Technology-Based Context of Use
Kristin Marie Bivens

The United States is struggling with an opioid overdose (OD) crisis. The opioid OD epidemic includes legally prescribed and illicitly acquired opioids. Regardless of if an opioid is legal, understanding users’ contexts of use is essential to design effective methods for individuals to reverse opioid OD. In other words, if health information is not designed to be contextually relevant, the opioid OD health information will be unusable. To demonstrate these distinct healthcare design contexts, I extend Patient Experience Design (PXD) to include community-based and technology-based contexts of use by analyzing two case examples of the Chicago Recovery Alliance’s and PowerdBy’s approaches to decrease deaths by opioid OD. Next, I discuss implications of community-based and technology-based PXD within communities of opioid users, critiquing each method and suggesting four contexts of use-heuristic categories to consider when designing health communication information for users in these contexts.
How Developers Use API Documentation: An Observation Study
Michael Meng, Stephanie Steinhardt, & Andreas Schubert

Application Programming Interfaces (APIs) play a crucial role in modern software engineering. However, learning to use a new API often is a challenge for developers. In order to support the learning process effectively, we need to understand how developers use documentation when starting to work with a new API. We report an exploratory study that observed developers while they solved programming tasks involving a simple API. The results reveal differences regarding developer activities and documentation usage that a successful design strategy for API documentation needs to accommodate. Several guidelines to optimize API documentation are discussed.

Queering Consent: Design and Sexual Consent Messaging
Avery C. Edenfield

For decades, sexual violence prevention and sexual consent have been a recurrent topic on college campuses and in popular media, most recently because of the success of the #MeToo movement. As a result, institutions are deeply invested in communicating consent information. This article problematizes those institutional attempts to teach consent by comparing them to an alternative grounded in queer politics. This alternative information may provide a useful path to redesigning consent information by destabilizing categories of gender, sexuality, and even consent itself.

April 2019
Volume 7 Issue 1

Maps, Silence, and Standing Rock: Seeking a Visuality for the Age of Environmental Crisis
Ryan Eichberger

In 2016, the Standing Rock Sioux Tribe founded the Sacred Stone Camp to protest Dakota Access Pipeline construction. The ensuing conflict was constructed both physically and digitally --- especially through maps. These maps made strategic inclusions and exclusions, which in turn offered differing concepts of civic, national, and historical identity. In this study, I trace some of these stories, inviting technical and professional communicators to rethink how they visualize systemic issues involving human and nonhuman ecologies. Finally, I suggest the idea of a ‘folded rhetoric’ to describe a strategic, ethical goal for technical communication in the age of environmental crisis.

Shades of Denialism: Discovering Possibilities for a More Nuanced Deliberation About Climate Change in Online Discussion Forums
Lauren E. Cagle, Carl Herndl
This article explores rhetorical practices underlying productive deliberation about climate change. We analyze discussion of climate change on a Reddit subreddit to demonstrate that good-faith deliberation—which is essential to deliberative democracy—exists online. Four rhetorical concepts describe variation among this subreddit’s comments: William Keith’s distinction between ‘discussion’ and ‘debate,’ William Cavino’s distinction between good and bad magic, Kelly Oliver’s notion of ethical response/ability, and Krista Ratcliffe’s notion of rhetorical listening. Using a three-part taxonomy based on these concepts, we argue that collaborative climate change deliberation exists and that forum participation guidelines can promote productive styles of engagement.

Communicating Activist Roles and Tools in Complex Energy Deliberation
Barbara George
This article analyzes online successful in positions from information architect to technical editor. Our article details how studying and enacting SEO helps students to develop proficiencies and knowledge central to technical communication pedagogies, including technological literacies, an understanding of the interconnections between human and non-human actors in digital spaces, and the ethical concerns central to work within those spaces. We then detail how SEO can be incorporated into technical communication curricula and share details of client-based projects that can facilitate that integration.

Theory to Practice: Negotiating Expertise for New Technical Communicators
Jennifer C. Mallette & Megan Gehre

In technical communication, discussions on how to best prepare graduates to meet workplace challenges range from responding to changing technology and occupational needs to focusing on creating flexible workers. Part of this conversation centers on expertise: what kinds of expertise are most valued and how can graduates be trained to be experts? In this article, we explore our field’s understandings of expertise by focusing on a recent master’s graduate and practitioner, Megan. As first an intern then a full-time employee at HP Inc, Megan experienced clashes between the classroom and workplace, which she sought to reconcile. In addition, she also had to learn to assert herself as a subject matter expert (SME) while working alongside SMEs. This navigation was not something her education necessarily prepared her for, and when compared to surveyed graduates’ experiences, may be something programs could emphasize. We conclude with recommendations for how academic programs can incorporate conversations about expertise and equip students to assert themselves as communication SMEs and build on that expertise after graduation.

Promoting Inclusive and Accessible Design in Usability Testing: A Teaching Case with Users Who are Deaf
Liz Hutter & Halcyon M. Lawrence

Drawing on an analysis of a usability teaching case with users who are deaf and who communicate using American Sign Language, we argue that there is a need for industry and the academy to refocus on more accessible testing practices, situated more decidedly within the social, cultural, and historical contexts of users. We offer guidelines for more inclusive practices for testing with users who are deaf prompting designers, developers, and students to think about systems of behavior, such as audism, cultural appropriation, and technological paternalism that undermine accessibility in their design and practices. More broadly, we propose ways in which instructors of technical communication can leverage usability tools and research methods to help students better understand their users for any artifact they design and create.

Connect with Your Patients, Not the Screen: Usability Claims in Electronic Health Records
Katie Lynn Walkup

This article examined the usability claims that Electronic Health Records (EHRs)
of themselves as information architects, many of them perform tasks that are information architecture responsibilities. If you decide what information gets created and delivered, identify keywords to support findability, or organize the hierarchy for a table of contents, you are performing IA tasks.

To learn who was performing these tasks and how they ended up with this role, I conducted a survey. This article presents my analysis of the results based upon my experience and relevant industry sources.

Cultivating Code Literacy: Course Redesign Through Advisory Board Engagement
Ann Hill Dun & Jason Chew
Kit Tham

This experience report shares the story of course redesign for cultivating technological and code literacy. This redesign came about as a result of listening to advisory board members as well as responding to recent scholarship calling for more specifics on the teaching of digital literacies, and code-as-language, code-as-tool, and code-as-structure. We then create a digital experience element to accompany the site. We document and analyze student narratives and online course discussions. We emphasize a more holistic approach to code literacy and that course redesign should be a collaborative endeavor with advisory board members and industry experts. Through these experiences, students gain requisite knowledge and practice so as to enter the technical communication community of practice.

Preparing Communication Design Students as Facilitators: A Primer for Rethinking Coursework in Project Management
Benjamin Lauren

Building from previous work by Lauren and Schreiber (2017) and research individually conducted by the author (Lauren, 2018), this brief teaching case provides a rationale for coursework in project management that draws from experiential learning to teach facilitation. The case begins by providing a research context for how communication designers are increasingly focused on practices of facilitation in their work, particularly in fast-paced, distributed work environments. The case presents two metaphors (garden tended and cooking) for helping students think about facilitation techniques. Then, the article describes a project management course that emphasizes the importance of facilitation in classroom exercises and major assignments by developing skills in three foundational areas: improvisation, document design, and systems design. Each area is described with examples to help instructors of project management adapt or use similar approaches in their own unique institutional, programmatic, and classroom contexts. The article concludes with four suggestions, such as partnering with industry practitioners and arranging site visits to see project management in action. As well, the concluding suggestions explain recent iterations of the course’s design.

Pedagogical Strategies for Integrating SEO into Technical Communication Curricle
Anthony T. Atkins & Colleen A. Reilly

Preparing students to understand and practice search engine optimization (SEO) teaches them writing skills, technological literacies, and theoretical background needed to pursue a successful technical communication career. SEO employs a multifaceted skill set, including an understanding of coding, skills in shaping and crafting effective user experience (UX), marketing skills, effective research strategies, and competence in accessibility. We argue that instruction in SEO in undergraduate and graduate programs in technical communication prepares graduates for the interdisciplinary and agile profession they seek to enter and enables them to be policy tools used by public participants to participate in complex environmental risk deliberation, specifically in terms of HVHF (high volume hydraulic fracturing). This article argues that institutional environmental deliberation tools, which are increasingly found online, are embedded in ideological discourse frames that are often at odds with public user ideologies. This article argues that environmental deliberation tools designed and created by stakeholders through participatory design models are more effective in promoting complex deliberations about environmental risk. Such participatory tools more clearly take into account environmental justice, intersectional and precautionary considerations.

Rhetoric, Risk, and Hydraulic Fracturing: One Landowner’s Perspective
Brian Ballentine

Claims for America’s potential for energy independence are substantiated largely thanks to advancements in an extraction process known as hydraulic fracturing or “fracking.” This article focuses on the negotiations among individual landowners and oil and gas companies as they enter into leasing agreements to permit fracking. The author draws on his own experiences as a landowner in the Marcellus and Utica shale region. Of primary concern is how landowners construct their own understanding of risk amidst a network of local, regional, and global actors. Landowner and oil and gas company relationships are analyzed using theories of rhetoric and risk communication.

Crossing Political Borders: How a Grassroots Environmental Group Influenced a Change in Public Policy
Laura Vernon

This study is a rhetorical analysis of communication design in the Amalga Barrens wetlands controversy during the 1990s. The Bridgerland Audubon Society (Bridgerland) in Cache Valley, Utah, was able to influence a change in public policy that removed the unique wetlands from consideration as a possible reservoir site for water taken from the Bear River. The group tried two times to influence public policy. The first effort failed because the group relied too much on lobbying. The second effort succeeded when the group developed a grassroots communication design. Bridgerland led a successful grassroots effort by (1) educating the public, (2) establishing credibility, (3) proposing an alternative solution, (4) making decisions based on data, (5) recognizing common ground, (6) getting the media involved, (7) building on what has been done before, and (8) practicing civility. Bridgerland’s experience may be helpful to other environmental groups that are trying to lead efforts in their own communities. Although the communication design presented cannot be generalized to fit all groups and situations, it may serve as a starting point.

Risk Selfies and Nonrational Environmental Communication
Ehren Helmut Pflugfelder

Risk associated with a Pacific Northwest earthquake was expressed through a moderately successful social media
Earth Discourses: Constructing Risks and Responsibilities in Chinese State and Social Media
Lin Dong

Defining global warming as a rhetorical construct built by stakeholders, this study investigates how Chinese state and social media understand risk and responsibility regarding climate change. This multi-layer, multi-dimension, statistical and qualitative textual analysis focuses on the ratification and implementation of the Paris Agreement and the U.S. withdrawal from it. Findings indicate that a new green public sphere led by grassroots experts and aided by lay people is burgeoning in China and changing the way people conceptualize environmental risks and engage in environmental protection. With theoretical and methodological innovations, this study contributes to the emerging field of transnational environmental communication.

Cultivating Virtuous Course Designers: Using Technical Communication to Reimagine Accessibility in Higher Education
Sherena Huntsman, Jared S. Colton, & Christopher Phillips

Technical communicators are often charged with creating access to meaning through technology. However, these practices can have marginalizing effects. This article argues for reimaging accessibility through virtue ethics. Rather than identifying accessibility as an addition to document design or a set of guidelines, virtue ethics situates accessibility as a habitual practice, part of one’s character. This article describes the application of virtue ethics in a university partnership, which sought to create a culture of accessibility through three goals: to consider accessibility as an on-going process, to consider accessibility as a “vital” part of all document design, and to recognize accessibility as a shared responsibility among stakeholders. Focusing on the virtues of courage and justice, we interpret data from a survey of instructors and then provide suggestions on how others can join the accessibility conversation.

Designing for Intersectional, Interdependent Accessibility: A Case Study of Multilingual Technical Content Creation
Laura Gonzales

Drawing on narratives (Jones, 2016; Jones & Walton, 2018) from bilingual technical communication projects, this article makes a case for the importance of considering language access and accessibility in crafting and sharing digital research. Connecting conversations in disability studies and language diversity, the author emphasizes how an interdependent (Price, 2011; Price & Kerchbaum, 2016), intersectional (Crenshaw, 1989; Medina & Haas, 2018) orientation to access through disability studies and translation can help technical communication researchers to design and disseminate digital research that is accessible to audiences from various linguistic backgrounds and who also identify with various dis/abilities.

Evolving Skill Sets and Job Pathways of Technical Communicators
Nadya Shalamova, Tammy Rice-Bailey, & Katherine Wikoff

Recent research in technical communication (TC) indicates that the field has become more varied than ever in terms of job titles, job skills, and levels of involvement in the design and production process. Here, we examine this diversity by detailing the results of a small-scale anonymous survey of individuals who are currently working as technical communicators (TCs). The purpose of our survey was to discover what job titles people who identify as TCs have held and the skills required of those positions. The study was conducted using the online survey platform Qualtrics. Survey results found that TCs occupy jobs and use skills that are often quite different from “traditional” TC careers. Results further support previous research that these roles and responsibilities continue to evolve. However, results also suggest that this evolution is more sweeping than previously realized—moving TCs away from not only the traditional technical writing role but also the “technical communicator” role as it has been understood for the past 20–25 years.

Responsive Curriculum Change: Going Beyond Occupation Demands
Teena A. M. Carnegie & Kate Crane

This experience report highlights one program’s approach to curriculum revision as the program moved from being an emphasis within a literature degree to a B.A. degree in technical communication. The major curriculum was designed by researching state and regional needs for technical communication education in addition to using research already conducted and published in the field. Through an examination of the skills technical communicators needed to be successful in the workplace and how those skills transfer to other related occupations, we were able to build a successful major. The revised curriculum used an interdisciplinary approach to include courses in technical communication, visual design, and public relations. Further, this report discusses the iterative programmatic changes necessary to keep the major current. From alumni interviews and secondary research on changes in technical communication, we continue to reassess the skills students need. As a result our program continues to evolve to equip students with technical communication skills that apply to various, related occupations.

Responsive Curriculum Change: Going Beyond Occupation Demands
Teena A. M. Carnegie & Kate Crane

This experience report highlights one program’s approach to curriculum revision as the program moved from being an emphasis within a literature degree to a B.A. degree in technical communication. The major curriculum was designed by researching state and regional needs for technical communication education in addition to using research already conducted and published in the field. Through an examination of the skills technical communicators needed to be successful in the workplace and how those skills transfer to other related occupations, we were able to build a successful major. The revised curriculum used an interdisciplinary approach to include courses in technical communication, visual design, and public relations. Further, this report discusses the iterative programmatic changes necessary to keep the major current. From alumni interviews and secondary research on changes in technical communication, we continue to reassess the skills students need. As a result our program continues to evolve to equip students with technical communication skills that apply to various, related occupations.