

# Curriculum Vitae

## Dr. Candice Lanius

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### Education

<b>Ph.D.</b>	Rensselaer Polytechnic Institute, Troy, NY Communication and Rhetoric Dissertation: <i>Arguments in Big Social Data Analysis: Uncovering the Hidden Rhetoric of Sociological Data Science</i> (Advisor: Dr. Ekaterina Haskins)	May 2017
<b>Graduate Certificate</b>	Rensselaer Polytechnic Institute, Troy, NY Human-Computer Interaction	May 2015
<b>M.S.</b>	Rensselaer Polytechnic Institute, Troy, NY	May 2014
<b>B.A.</b>	The George Washington University, Washington, DC Anthropology and Statistics, Cum Laude	May 2012

### Professional Appointments

<b>Assistant Professor</b>	University of Alabama in Huntsville Department of Communication Arts	August 2018 - <i>Current</i>
<b>Lecturer</b>	University of Alabama in Huntsville Department of Communication Arts	August 2016 – August 2018

### Publications

#### Peer Review

Lanius, C., Weber, R., Robinson, J. (Accepted and Forthcoming). User experience methods in research and practice. *Journal of Technical Writing and Communication*.

Lanius, C., Weber, R., MacKenzie, W. (Accepted and Forthcoming). Use of bot and content flags to limit the spread of misinformation among social networks: A behavior and attitude survey. *Social Network Analysis and Mining*.

Lee, J. S., & Lanius, C. (Accepted and Forthcoming). Eye tracking student perception of medieval illuminated manuscripts. *Medieval Perspectives*, 34.

Lanius, C. (2021). Rhetorical implications of contact tracing mobile applications: An examination of big data's work on the body. *POROI: Project on Rhetoric of Inquiry*.

Lanius, C., Weber, R., Spiegle, J., Robinson, J., & Potts, R. (2020). Drawing on personas: How user

personas affect creativity. *Technical Communication*, 67(4), 48-71.

Lanius, C. (2019). Torment porn or feminist witch hunt: Apprehensions about the #MeToo movement on /r/AskReddit. *Journal of Communication Inquiry*, 43 (4). doi.org/10.1177%2F0196859919865250

Lanius, C. (2019). Data cannot speak for themselves: Unreasonable claims within the big social data community. In *Networking Argument*, C. Winkler (Ed.) New York, NY: Routledge.

Robinson, J., & Lanius, C. (2018, August). A geographic and disciplinary examination of UX empirical research since 2000. In *Proceedings of the 36th ACM International Conference on the Design of Communication (SIGDOC '18)*. DOI:10.1145/3233756.3233930. ACM.

Robinson, J., Lanius, C., & Weber, R. (2017). The past, present, and future of UX empirical research. *Communication Design Quarterly*, 5(3), 10-23.

Lanius, C. (2017). Telling the quants from the quacks: Evaluating statistical arguments in debates online. In M. Folk & S. Apostel (Eds.), *Establishing and evaluating online credibility and digital ethos*. Hershey, PA: IGI Global.

Lanius, C. (2016, September). Arguments and interpretation in big social data analysis: A survey of the ASONAM community. In *2016 International Conference on Advances in Social Networks Analysis and Mining (ASONAM)* (pp. 1364 - 1367). IEEE.

Lanius, C. (2016). Big data goes to Washington: How protestors navigate aggregated social media content. In G. W. Richardson, Jr. (Ed.), *Social media and politics: A new way to participate in the political process*. Santa Barbara, CA: Praeger.

### **Book Chapters in Edited Collections**

Lanius, C. & Hubbell, G. (2017). The new data: Argumentation amidst, on, with, and in data. In A. Hess & A. Davisson (Eds.), *Theorizing digital rhetoric*. New York: Routledge.

### **Web-Based Publications**

Lanius, C. (2015). OpenNY: Civic engagement through open data and open platforms. In E. Gordon & P. Mihailidis (Eds.), *The civic media project*. Cambridge, MA: MIT Press. civicmediaproject.org.

Lanius, C. (2011). YouTube commentary: Social interactions in online publics. *The Eagle Feather*, University of North Texas, Denton. (Available at eaglefeather.honors.unt.edu/2011/article/143#.WGMOi\_krLIU).

### **Grant Funding**

**National Science Foundation** Co-PI for User Testing (\$11,100) 2020 - 2021  
EarthChem project, IEDA Data Facility, Columbia University, <https://www.earthchem.org/>  
Two students and I will user test the Earth Chem tool and work with EarthChem's designer to improve the tool's functionality and usability.

### **Invited Talks**

- Lanius, C. (2016, October 25). *The hidden anxieties of the quantified self movement: A user experience take on self-tracking and the therapeutic relationship*. Invited talk for the User Experience Professionals Association- Tennessee Valley (UXPA), Huntsville, Alabama.
- Lanius, C. (2016, September 7). *The hidden anxieties of the quantified self movement: A rhetorical take on self-tracking and the therapeutic relationship*. Invited grand round presentation at Albany Medical Center, Department of Psychiatry, Albany, New York.
- Lanius, C. (2016, May 19). *"It's common sense!": The unseen resources for generating research questions and interpretations in big social data*. Invited paper presentation at Albany Medical Center Journal Club, Albany, New York.

### **Conference Presentations**

- Lanius, C. (2020, May 24). *Hospitable technology and the political implications of big social data*. Rhetoric Society of America Biennial Conference, Portland, Oregon. [Conference subsequently cancelled due to Coronavirus Pandemic].
- Lanius, C. (2020, May 24). *Rhetoric of social statistics: Statistical persuasion and argumentation in the Lumosity memory wars*. Rhetoric Society of America Biennial Conference, Portland, Oregon. [Conference subsequently cancelled due to Coronavirus Pandemic].
- Lanius, C. (2019, October 5). *Can I trust my users? The place of self-reported data in a biometric world*. Special Interest Group for the Design of Communication, Portland, Oregon.
- Lanius, C. (2019, September 21). *UX Persona Research*. Panel presentation for the Louisiana Tech Usability Studies Symposium, Bossier City, LA.
- Lanius, C. (2019, August 3). *Hedging Your Bet on Research: Replication in the Research as Argument Model*. Alta Argumentation Conference, Snow Bird, Utah.
- Lanius, C. (2019, June 7). *Uttered from the Heart: Writing a Sensory Rhetoric with Heart Rate Monitoring*. Rhetoric Society of America Summer Institute, College Park, Maryland.
- Lanius, C. (2019, April 4). *What Can Video Games Teach Us About Big Data?* Paper for the Southern States Communication Association, Montgomery, AL.
- Lanius, C. (2018, November 2). *Mediation, Confidence, and Communication Apprehension*. Talk for the Southern Atlantic Modern Language Association conference in Birmingham, AL.
- Lanius, C., & Lee, S. (2018, September 22). *Learning How They Read: Qualitative Coding with Eye tracking Methods*. Panel presentation at the Louisiana Tech Usability Studies Symposium, Bossier City, LA.
- Lanius, C. (2018, June 1). *Artificial rhetoric: the implications of TensorFlow machine intelligence and the future of human decision making*. Paper for the Rhetoric Society of America Biannual Conference, Minneapolis, MN.

- Lanius, C. (2018, May 24). *Building user-experience (UX) research centers*. Workshop for the Computers and Writing Conference, Fairfax, VA.
- Lanius, C. (2017, October 6). *Mapping the route: How academic and programmatic research informed new UX programs*. Panel for the Council for Programs in Technical and Scientific Communication Convention, Savannah, Georgia.
- Lanius, C. (2017, July 22). *Data cannot speak for themselves: Unreasonable claims within the big social data community*. Paper for the 2017 Alta Argumentation Conference, Alta, Utah.
- Lanius, C. (2016, November 11). *"It's common sense!": The unseen resources for generating research questions and interpretations in big social data*. Paper for the 2016 National Communication Association Convention, Philadelphia, Pennsylvania.
- Lanius, C. (2016, September 15). *Data sharing practices in big social data: A review of the ASONAM community*. Poster presented at the Research Data Alliance's 8<sup>th</sup> Plenary, Denver, Colorado.
- Lanius, C. (2016, September 14). *Panel: Data for the public good- a next-generation vision*. Panel at the International Data Forum, Denver, Colorado.
- Lanius, C. (2016, August 18). *Arguments and interpretation in big social data analysis: A survey of the ASONAM community*. Poster at the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, San Francisco, California.
- Lanius, C. (2016, May 28). *Data differentiation, rhetoric's machines: Procedures, algorithms, and computation*. Paper for the 2016 Rhetoric Society of America Conference, Atlanta, Georgia.
- Lanius, C. (2016, May 27). *Topoi of mathematical statistics*. Paper for the 2016 Rhetoric Society of America Conference, Atlanta, Georgia.
- Lanius, C. (2015, November 18). *Finding agency in the data science machine: Understanding emerging climate change arguments from automated data modeling*. Paper for the 2015 National Communication Association Convention, Las Vegas, Nevada.
- Lanius, C. (2014, November 20). *The bigger the data the harder the fall? Opportunities, methodologies, and challenges to big data analysis*. Paper for the 2014 National Communication Association Convention, Chicago, Illinois.
- Lanius, C. (2014, September 22). *RDA/US: Building the infrastructure in the United States*. Poster presented at the Research Data Alliance's 4<sup>th</sup> Plenary, Amsterdam, Netherlands.
- Hubbell, G. & Lanius, C. (2014, May 22). *Borders within rhetoric: What are the contemporary canons?* Paper for the 2014 Rhetoric Society of America Conference, San Antonio, Texas.
- Lanius, C. (2012). *Contextualizing Kony 2012*. Paper for the Neoliberalism 2.0: Technologies, Power, and Resistance Across Borders Conference. University of Illinois, Urbana-Champaign.

## **Teaching Experience**

Most Recent Semester

Department of Communication Arts, University of Alabama in Huntsville

CM 113 Public Speaking	Fall 2019
CM 113 Honors Public Speaking	Spring 2021
CM 220 Introduction to Public Relations [Online]	Fall 2020
CM 313 Professional and Business Communication	Fall 2018
CM 313 Professional and Business Communication [Hybrid]	Summer 2018
CM 340 Experiments in Nonverbal Communication	Spring 2019
CM 340 Digital Rhetoric	Spring 2017
CM 370 Research Methods	Fall 2020
CM 440/540 Public Relations Campaigns [Hybrid]	Fall 2019
CM 444/544 Advertising [Online]	Summer 2020
CM 420/520 Public Relations Writing [Hybrid]	Spring 2021
CM 452/552 User Centered Design	Spring 2021
CM 670 Advanced Research Methods	Fall 2020

*Guest Lecturer*

Rensselaer Polytechnic Institute, Troy, NY Professor Rebecca Rouse, Communication and Media Course: Proposing and Persuading	April 2015
Professor Nathan Fisk, Science and Technology Studies Course: Internet & Law Course: Youth & Teens Online	March 2013 Dec. 2012

*Graduate Teaching Assistant*

Professor Roger Grice, Communication and Media Rensselaer Polytechnic Institute, Troy, NY Courses: Foundations of HCI, Introduction to HCI	Aug. 2013 – May 2014
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*Novice Debate Education Coordinator*

George Washington Parliamentary Debate Society The George Washington University, Washington, DC	Sept. 2010 – May 2012
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*Statistics Tutor*

The George Washington University, Washington, DC	Sept. 2010 – May 2012
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*Writing Preceptor and Teaching Assistant*

Dr. Catherine Timura, Writing in the Discipline Program The George Washington University, Washington, DC Course: Foundations in Anthropological Thought	Jan. 2011- May 2011
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**Fellowships and Awards**

UAH Online Learning Initiative (\$1,350)	Spring 2019
UAH Online Learning Initiative (\$1,000)	Spring 2017
Rensselaer Founders Award of Excellence	Oct. 2016
Rensselaer Humanities, Arts, and Social Sciences (HASS) Fellowship	Aug. 2015 – May 2017
The McKinney Prize, 1 <sup>st</sup> Place Graduate Essay	April 2016
Joanne Wagner Memorial Fellowship	Sept. 2015 – Sept. 2016

The McKinney Prize, 2 <sup>nd</sup> Place Graduate Essay	April 2015
Rhetorical Studies Award, Dept. Travel Award	Aug. 2014
Rensselaer Graduate Fellowship	Aug. 2012 – May 2013
Board of Trustees Scholar (GWU)	Aug. 2010 – May 2012

## **Research and Communication Positions**

<i>Alliance for Digital Humanities Organizations</i> <b>Communications co-Chair</b>	August 2017 – April 2019
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<i>Alliance for Digital Humanities Organizations</i> <b>Communications Fellow</b>	July 2015 – July 2016
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<i>Research Data Alliance</i> <b>US Resident</b> Supervisor: Dr. Francine Berman, Rensselaer Polytechnic Institute	Aug. 2014 – Aug. 2015
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<i>Time Inc.</i> <b>Digital Product Analyst/ UX Research</b> Manager: Manoj Shah, Technology & Product Engineering, New York, NY	June – Aug. 2014
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<i>Anthropology Department, GWU</i> <b>Administrative and Research Assistant</b> Supervisor: Dr. Stephen Lubkemann, Anthropology, The George Washington University	Sept. 2011—May 2012
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<i>Anthropology Research Experience for Undergraduates</i> <b>NSF REU Researcher</b> Director: Dr. Beverly Davenport, Anthropology, University of North Texas	June – July 2011
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## **Professional Service**

- Peer Reviewer for JoCTEC (November 2020)
- Peer Reviewer for Sociological Spectrum (July 2020)
- Peer Reviewer for SIGDOC 2020 (February 2020)
- Mentor for Innovation to Invention Center (I2C)
  - Mentored Susan Spencer of Seamly (September 9, 2019)
- User Experience Professional Association of Alabama – Academic Advisor (2019 – Current)
  - UXPAA User Centered Design Open House (February 2020)
  - UX Rising – Co Organizer (January 2020)
  - UXPAA Meet and Greet Event (October 25, 2019)
- Peer Reviewer for NCA Rhetorical and Communication Theory Division (2019, 2020)
- Peer Reviewer for Heliyon (Journal) (November 2019)
- Alliance of Digital Humanities Organizations Communication Chair (2017 – 2019)
- Public Relations Society of America – Medallion Awards Judge (March 2018)
- Journal of Games Criticism Editorial Board Member (2013 – Current)

## **Directed Student Learning**

### **Certificate in Principles of Public Relations**

Katie Kirkland, Public Relations Society of America, Fall 2017

Alexandra Wiegand, Public Relations Society of America, Fall 2018

Hannah Powell, Public Relations Society of America, Fall 2018

### **B.A. Communication Arts - Thesis**

Shonice Pitts, How Social Media Is Used As A Political Platform And How It Affects The Way Society Views Elected Officials, Spring 2018

Ravyn Highsmith, African/Black American's With Their Hair: How Hair Can Be A Form of Power, Fall 2019

Devin Townsend, The Gaze Have It Media and Representation: Queer Advertisements in Pride Marketing, Spring 2020

Delaney Hicks, Corporate Social Responsibility: Public Relations Claims versus Observable Practices, Fall 2020

### **Honors College Thesis**

Juno Baker, Public Speaking Anxiety and the Brain: Measuring EEG Waves of Public Speakers, Biology B.S., Spring 2019

Ashton Prestige, Perceptions of physical disabilities using eye-tracking technology, Spring 2020

### **M.A. Professional Communication Thesis**

Douglas Stogner, Remodelling Recovery: Understanding Social Conditioning and Communication During Adolescent Stages of Development and How they Correlate with Substance Use Disorders, Summer 2020

## **Other Writing**

Lanius, C. (2017). Tiffi (Candy Crush). In R. Mejia, J. Banks, & A. Adams (Eds.), *The 100 greatest video game characters*. Lanham, MD: Rowman & Littlefield.

Lanius, C. (2016, January 20). Big Data's Negligible Impact on Underserved Communities is Still Firmly Ignored. Guest post for *Cyborgology*. [thesocietypages.org/cyborgology/2016/01/20/big-datas-negligible-impact-on-underserved-communities-is-still-firmly-ignored](https://thesocietypages.org/cyborgology/2016/01/20/big-datas-negligible-impact-on-underserved-communities-is-still-firmly-ignored). View count: 487.

Lanius, C. (2015, November 5). How Do We Talk About Ethics at a Tech Conference? Guest post for *Cyborgology*. [thesocietypages.org/cyborgology/2015/11/05/how-do-we-talk-about-ethics-at-a-tech-conference](https://thesocietypages.org/cyborgology/2015/11/05/how-do-we-talk-about-ethics-at-a-tech-conference). View count: 396.

Lanius, C. (2015, May 5). The Hidden Anxieties of the Quantified Self Movement. Guest post for *Cyborgology*. [thesocietypages.org/cyborgology/2015/05/05/the-hidden-anxieties-of-the-quantified-self-movement](https://thesocietypages.org/cyborgology/2015/05/05/the-hidden-anxieties-of-the-quantified-self-movement). View count: 714.

Lanius, C. (2015, January 12). Fact Check: Your Demand for Statistical Proof is Racist. Guest post for *Cyborgology*. [thesocietypages.org/cyborgology/2015/01/12/fact-check-your-demand-for-statistical-proof-is-racist](https://thesocietypages.org/cyborgology/2015/01/12/fact-check-your-demand-for-statistical-proof-is-racist). View count: 19,491

## **Technical Skills**

Graphic Design for Scientific Applications

- Rhetoric of visual communication elements – contrast, scale, color, typography
- Visualization type selection – charts, tables, graphs, geospatial maps, networks, etc.
- Graphic software suites and data visualization platforms: Cytoscape, Science of Science (Sci2).
- Iterative design and validation with clients or user communities.

#### User Experience and Interaction Design

- User centered interface design
- Static and dynamic interface prototyping: Balsamiq
- Usability testing
- Client and community design validation
- Technical writing for documentation and introductory tutorials

#### Statistical Analysis

- Statistical languages: SPSS, R, and SAS for both operational use and program management.
- Parametric and non-parametric tests with human subjects research data.

#### Survey Research and Research Design

- Survey building and coding: Qualtrics, Google forms, SurveyMonkey
- Qualitative data analysis: Atlas.ti, Nvivo

### **Professional Affiliations**

National Communication Association

Rhetoric Society of America

Special Interest Group for Design of Communication (Association for Computing Machinery)

Social Network Analysis and Mining – Editorial Board