

# Dr. Candice L. Lanius

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eValuation and User Experience Lab

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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

### **Double Blind Peer Review**

- 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.

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

### **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](http://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](http://eaglefeather.honors.unt.edu/2011/article/143#.WGMOi_krLIU)).

### **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. (2019, April 4). *What Can Video Games Teach Us About Big Data?* Paper for the Southern States Communication Association, Montgomery, AL.

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.

### **Rhetoric Society of America Summer Institutes**

- Workshop Participant – "Writing Sensory Rhetorics." University of Maryland College Park      June 2019
- Workshop Participant – "Rhetoric's Algorithms." University of Wisconsin.      June 2015

### **Research and Communication Positions**

- Alliance for Digital Humanities Organizations*      August 2017 - Current  
**Communications co-Chair**
- Alliance for Digital Humanities Organizations*      July 2015 – July 2016  
**Communications Fellow**
- Research Data Alliance*      Aug. 2014 – Aug. 2015

**US Resident**

Supervisor: Dr. Francine Berman, Rensselaer Polytechnic Institute

*Time Inc.*

June – Aug. 2014

**Digital Product Analyst/ UX Research**

Manager: Manoj Shah, Technology &amp; Product Engineering, New York, NY

*Anthropology Department, GWU*

Sept. 2011—May 2012

**Administrative and Research Assistant**

Supervisor: Dr. Stephen Lubkemann, Anthropology, The George Washington University

*Anthropology Research Experience for Undergraduates*

June – July 2011

**NSF REU Researcher**

Director: Dr. Beverly Davenport, Anthropology, University of North Texas

**Teaching Experience****Most Recent Semester**

Department of Communication Arts, University of Alabama in Huntsville

CM 113 Introduction to Rhetorical Communication Fall 2018

CM 220 Introduction to Public Relations [Online] Spring 2019

CM 313 Professional and Business Communication [Hybrid] Fall 2018

CM 340 Digital Rhetoric Spring 2017

CM 370 Research Methods Fall 2018

CM 420/520 Public Relations Writing [Hybrid] Spring 2019

CM 440/540 Public Relations Campaigns Fall 2018

CM 444/544 Advertising Summer 2019

CM 552 User Centered Design Spring 2019

CM 670 Advanced Research Methods Spring 2018

*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 &amp; Law March 2013

Course: Youth &amp; Teens Online Dec. 2012

*Graduate Teaching Assistant*

Aug. 2013 – May 2014

Professor Roger Grice, Communication and Media

Rensselaer Polytechnic Institute, Troy, NY

Courses: Foundations of HCI, Introduction to HCI

*Novice Debate Education Coordinator*

Sept. 2010 – May 2012

George Washington Parliamentary Debate Society

The George Washington University, Washington, DC

*Statistics Tutor*

Sept. 2010 – May 2012

The George Washington University, Washington, DC

*Writing Preceptor and Teaching Assistant*

Jan. 2011- May 2011

Dr. Catherine Timura, Writing in the Discipline Program

The George Washington University, Washington, DC  
Course: Foundations in Anthropological Thought

### **Fellowships and Awards**

Online Course Initiative (\$1,000)	Spring 2019
Online Course 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

### **Department Service**

Public Relations Certificate Coordinator (PRSA) (2017 – Current)  
Adviser for CM Majors (2017 – Current)  
Lambda Pi Eta Rho Zeta Honor Society Academic Advisor (May 2018 – Current)  
Week of Welcome Event (August 2018)  
CM 431 - B.A. Defenses for Internships and Undergraduate Thesis  
(May, August, December 2018)  
Department Alumna Event / Goodbye Morton Hall (May 2018)

### **UAH Service**

Writing B.A. Assessment Committee (2018 – Current)  
UX Curriculum Committee (English/ Communication Arts) (2017 – Current)  
Professional Communication Event for Tribeta Biology Honor Society (August 2018)  
Madison County / Huntsville City Schools College Fair (August 2018)  
So you think you can research? Event judge and advisor with David Cook (Director of  
Academic Affairs / Honors College) (April 2017 and April 2018)  
CAHS Awards Committee (2017 – 2018)

### **Professional Service**

Alliance of Digital Humanities Organizations Communications Chair	2017 - Current
Research Data Alliance Co-Chair <i>Ethics and Social Aspects of Data Sharing</i> Interest Group	April 2015 – Current
8 <sup>th</sup> Plenary Newcomer's Session Co-organizer, Denver, Colorado	Sept. 2016
6 <sup>th</sup> Plenary Newcomer's Session Organizer, Paris, France	Sept. 2015
5 <sup>th</sup> Plenary Program Committee, San Diego, CA	March 2015
<i>Journal of Games Criticism</i> Editorial Board Member - Press Editor	Aug. 2013- 2016
Reviewer for: <i>Communication +1</i>	2016

National Communication Association <i>Student Section</i>	2016
National Communication Association <i>Human Computer Technology Division</i>	2015
Big Data, Ethics, and Society (BDES) Network Member	Jan. 2016
HASS <i>UnLearn</i> Event Planning Committee and Participant	Feb. 2013
George Washington Parliamentary Debate Society <i>Vice-President</i>	Aug. 2011 – May 2012
<i>Communication's Chair</i>	Aug. 2010 – July 2011
<i>Member-at-Large</i>	Jan. 2010 – July 2010

### **Other Writing**

- 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](http://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](http://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](http://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](http://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**

Alliance for Digital Humanities Organizations

National Communication Association

Rhetoric Society of America

Research Data Alliance

Association for Computing Machinery