

**GRETCHEN R. STAHLMAN, PH.D.**  
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## EDUCATION

**University of Arizona**, Tucson, AZ

**PhD**, Information, May 2020

- Dissertation: “Exploring the Long Tail of Astronomy: A Mixed-Methods Approach to Searching for Dark Data”
- Committee: P. Bryan Heidorn, Chair (UA School of Information); Steven Bethard (UA School of Information); Erin Leahey (UA School of Sociology); John Mester (UA College of Optical Sciences); Carole Palmer (University of Washington Information School)

**Clarion University of Pennsylvania**, Clarion, PA

**MS**, Library Science, August 2010

**New Mexico Institute of Mining and Technology**, Socorro, NM

**BS**, General Studies, *graduated with honors*, December 2006

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## APPOINTMENTS

**Rutgers University School of Communication & Information**, New Brunswick, NJ

- **Assistant Professor (tenure track)** – *Department of Library & Information Science*  
July 2020 – present
  - **Adjunct Assistant Professor** – *Department of Library & Information Science*  
September 2019 – June 2020
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## RESEARCH AND TEACHING INTERESTS

- Data curation
- Digital libraries
- Knowledge organization
- Scholarly communication
- Human information behavior
- Information search and retrieval
- Sociology of knowledge
- Cyberinfrastructure development

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## PEER REVIEWED JOURNAL ARTICLES

Stahlman, G.R. (2020). *From nostalgia to knowledge: Considering the affective dimensions of long tail data lifecycles*. Manuscript in preparation.

Heidorn, P. B., Stahlman, G. R., & Steffen, J. (2018). Astrolabe: Curating, linking, and computing astronomy's dark data. *The Astrophysical Journal Supplement Series*, 236(1), 3.

Brooks, C. F., Heidorn, P. B., Stahlman, G. R., and Chong, S. S. (2016). Working beyond the confines of academic discipline to resolve a real-world problem: A community of scientists discussing long-tail data in the cloud. *First Monday*.

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## CONFERENCE PROCEEDINGS AND POSTERS (\* peer reviewed)

\* Stahlman, G.R. & Heidorn, P.B. (2020). Mapping the “long tail” of research funding: A topic analysis of NSF grant proposals in the Division of Astronomical Sciences. *Annual Meeting of the Association for Information Science & Technology (ASIS&T)*, October 23-28, 2020.

Stahlman, G.R. (2020). The literature as a gateway to data across domains: Comparing the information behavior of scientists locating data for reuse while reading journal articles. *Ecological Society of America (ESA) Annual Meeting*, August 2-7, 2020.

Stahlman, G.R. (Under Review). Illuminating the characteristics and accessibility of data behind papers in astronomy. *Library and Information Services in Astronomy IX (LISA 9)*, June 22-24, 2020, Royal Astronomical Society, London, UK (CONFERENCE POSTPONED).

Spuck, T. & Stahlman, G.R. (Under Review). Growing the "Network for Earth-space Research Education and Innovation with Data" (NEREID). *Library and Information Services in Astronomy IX (LISA 9)*, June 22-24, 2020, Royal Astronomical Society, London, UK (CONFERENCE POSTPONED).

Cramer, C.B., Uzzo, S.M., Fuka, D., Naum, K., Spuck, T. & Tuddenham, P., eds (2020). *Network for Earth-space Research Education and Innovation with Data (NEREID) NSF Workshop Report*, November 20-22, 2019 [White Paper].

\* Stahlman, G. R., & Sheffield, C. (2019). Geoparsing biodiversity heritage library collections: A preliminary exploration. *iConference 2019 Proceedings*.  
<https://www.ideals.illinois.edu/handle/2142/103357>

\* Stahlman, G.S., Heidorn, P.B., Steffen, J. (2018). The Astrolabe Project: Identifying and curating astronomical ‘dark data’ through development of cyberinfrastructure resources. *EPJ Web of Conferences*, 186, 03003. <https://doi.org/10.1051/epjconf/201818603003>

\* Brooks, C., Heidorn, P. B., Stahlman, G., & Chong, S. (2016). Discourses, a community of scientists and long-tail data in the cloud. *AoIR Selected Papers of Internet Research*, 5.

Heidorn, P.B. and Stahlman, G.R. (2016). The Astrolabe Project: Cloud-based Curation of Data and Software Using Interdisciplinary Infrastructures. Poster presentation at The Science of Consciousness, Tucson, AZ, April 25-30, 2016.

\* Heidorn, P.B., Stahlman, G.R., and Chong, S. (2015). Datasphere at the Biosphere II: Computation and data in the wild. Poster presentation at iConference, Newport Beach, CA, March 25-26, 2015.

\* Bhatia, R., et al. (2012). System engineering of the Atacama Large Millimeter/submillimeter Array. *Proceedings of the International Society for Optics and Photonics*, volume 8449. doi: 10.1117/12.926822.

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## INVITED TALKS

Stahlman, G.R. (2019). Discovering dark data through the lens of the literature. *Network for Earth-space Research, Education and Innovation with Data (NEREID) Workshop*, November 21, 2019, Green Bank Observatory, Green Bank, WV. <https://sites.google.com/view/nereid2019/>

Stahlman, G.R. (2019). Exploring the Long Tail of astronomy. *Petabytes to Science: Data Inclusion Revolution*, November 6, 2019, Cambridge, MA. <https://petabytestoscience.github.io/workshop-iii>

Stahlman, G. (2019). “Discovering Dark Data Through the Lens of the Scholarly Literature”, Invited Research Talk. University of Michigan School of Information, Ann Arbor, MI, February 13, 2019.

Stahlman, G. (2018). “Discovering Data Hidden in the Scholarly Literature”, Invited Research Talk. Rutgers School of Communication and Information, New Brunswick, NJ, November 29, 2018.

Heidorn, P.B. & Stahlman, G.R. (2018). “Astrolabe: Building on Collaborative Networks”, Invited Plenary Talk. ESIP Summer Meeting, Tucson, AZ, July 18, 2018.

Stahlman, G.R. (2017). “Exploring the 'Long Tail' of Astronomy Data through Cyberinfrastructure Development”, Invited Colloquia Talk, Center for Digital Society and Data Studies, Tucson, AZ, February 3, 2017.

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## GRANTS, FELLOWSHIPS AND AWARDS

- **Grant for Individual Faculty Research (GIFR)** awarded by Rutgers University's School of Communication & Information (SC&I) (**\$4,000**): *Discovering data through text: modeling the information behavior of scientists across domains*, December 2019
- Admitted to **2019 iConference Doctoral Colloquium**, March 31 – April 3, 2019, Washington, DC
- **2019 Outstanding Graduate Student**, awarded by University of Arizona School of Information, May 2019
- **LEADS Fellowship** awarded by LEADS-4-NDP program and Drexel University (**\$5,000**), Summer 2018
- **SBS Summer Dissertation Fellowship** awarded by University of Arizona (\$5,000; declined award to accept LEADS Fellowship)
- **Dissertation Research Grant** awarded by University of Arizona Social and Behavioral Sciences Research Institute (SBSRI) (**\$1986**), March 2018
- School of Information **PhD Travel Grant (\$800)** awarded for travel to Library and Information Services in Astronomy (LISA VIII) conference in Strasbourg, France, June 2017
- **Research Assistantship** funded by the Astrolabe Project, through 2016 UA Accelerate for Success grant, and NSF SI2-SSE award #1642446, "Visualizing Astronomy Repository Data using WorldWide Telescope Software Systems" (**\$499,997**), 2016-2017 (*included as named personnel, participated in proposal writing*)
- Full scholarship and travel support awarded by National Optical Astronomy Observatory to attend the **La Serena School of Data Science** in La Serena, Chile, August 2015
- **Research Development Fellowship** awarded by University of Arizona Office for Research & Discovery, 2015-2016 academic year
- Support awarded by National Optical Astronomy Observatory to attend **Thirty Meter Telescope annual science forum**, June 2015
- **Graduate and Professional Student Council (GPSC) Research and Project Grant** awarded for purchase of equipment (**\$1065**), December 2014

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## CONFERENCE AND WORKSHOP PRESENTATIONS

Stahlman, G.R. (2020). Geoparsing Biodiversity Heritage Library collections. *LIS Education and Data Science for the National Digital Platform (LEADS-4-NDP) Forum*, January 24, 2020, Philadelphia, PA.

Stahlman, G.R. (2019). *New Faculty Colloquium*. Rutgers School of Communication and Information, New Brunswick, NJ, September 4, 2019.

Stahlman, G.R. (2018). Text mining for the dark data hidden in astronomical literature. *Computational Social Science Mini-Conference*, October 26, 2018, Tucson, Arizona.

Stahlman, G.R. (2017). Identifying and curating astronomical “dark data” through development of cyberinfrastructure resources. *Library and Information Services in Astronomy VIII* (LISA VIII), June 7-9, 2017, Strasbourg, France.

Stahlman, G.R. (2016). “Navigating Astronomical Dark Data through Advanced Cyberinfrastructure”, American Astronomical Society Author-Referee Workshops at *Division for Planetary Sciences Annual Meeting and California Institute of Technology*, Pasadena, CA, October 2016.

Heidorn, P.B. and Stahlman, G.R. (2016). *Astrolabe Workshop*, July 11-12, 2016, Tucson, AZ.

Heidorn, P.B. and Stahlman, G.R. (2015). *Arizona Astronomy Data Hub Workshop*, July 6-7, 2015, Tucson, AZ.

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## ADDITIONAL SELECTED PUBLICATIONS

“My experience as a LEADS Fellow with BHL”, *Biodiversity Heritage Library Blog*, September 18, 2018 (<https://blog.biodiversitylibrary.org/2018/09/my-experience-as-a-leads-fellow-with-bhl.html>)

“Hot science in the classroom: One high school science teacher’s dream come true,” *Astronomical Society of the Pacific, Mercury Magazine*, Summer 2007

“Chile launches bi-lateral research foundation with United Kingdom,” *The Santiago Times*, Santiago, 2012

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## GRADUATE RESEARCH EXPERIENCE

- *Research Assistant, Grant Writing Support* – University of Arizona School of Information, Tucson, Arizona, January 2019 – May 2019
- *LEADS Fellow* – *Smithsonian Biodiversity Heritage Library*, May 2018 – September 2018
- *Astrolabe Graduate Research Associate* – University of Arizona School of Information, Tucson, Arizona, August 2015 – August 2017
- *Research Development Fellow* – University of Arizona Office for Research and Discovery, Tucson, Arizona, July 2015 - July 2016
- *Graduate Assistant* – *American Astronomical Society*, Tucson, Arizona, May 2015 - August 2015
- *Graduate Student Intern* – *Large Synoptic Survey Telescope (LSST)*, Tucson, Arizona, May 2014 – August 2014
- *Graduate Research Assistant* – University of Arizona School of Information Resources and Library Science (SIRLS), Tucson, Arizona, August 2013 – May 2014

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## TEACHING EXPERIENCE

### **Rutgers School of Communication & Information, New Brunswick, New Jersey**

September 2019 – present

- Master of Information (MI) program:
  - Organizing Information: Fall 2020 (online)
  - Human Information Behavior: Fall 2019 (online), Spring 2020 (online)
- Information Technology and Informatics (ITI) undergraduate program:
  - Social Informatics: Spring 2020 (hybrid), Fall 2020 (online)

### **University of Arizona School of Information, Tucson, Arizona**

September 2014 – July 2020

- Master of Information program:
  - Organization of Information: Summer 2020 (online)
- Information Science and eSociety undergraduate program:
  - Collaborating in Online Communities: Summer 2017 (online), Fall 2017 (online), Spring 2018 (in-person), Summer 2018 (online), Fall 2018 (online), Summer 2019 (online)
- Teaching Assistant:
  - ESOC 210, Hacking and Open Source Culture, Spring 2015 (taught by Dr. Cheryl Knott)
  - HNRS 150b, Exploring Electronic Presence, Spring 2015 (taught by Dr. Victor Braitberg)
  - ESOC 150b, Social Media and Ourselves, Fall 2014 (taught by Dr. Laura Lenhart)
  - IRLS 474/575, User Interfaces and Web Design, Fall 2014 (taught by Dr. Martin Frické)
  - IRLS 515, Organization of Information, Fall 2014 (taught by Dr. Martin Frické)
  - IRLS 506, Introduction to Research, Fall 2014 (taught by Dr. Martin Frické)

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## PROFESSIONAL EXPERIENCE

- *Writer and Web Editor* - The Santiago Times, Santiago, Chile, May 2012 – January 2013
- *Document Specialist, System Engineering* - Atacama Large Millimeter/submillimeter Array, Santiago, Chile, February 2012 - July 2012
- *Technical Writer and Documentation Specialist*, ALMA Back End IPT - National Radio Astronomy Observatory, Socorro, NM, USA, January 2007 - August 2011
- *Assistant Circulation Supervisor* - New Mexico Institute of Mining and Technology Joseph R. Skeen Library, Socorro, NM, USA, August 2001 - March 2007

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## GUEST LECTURES

*Open science, data sharing and astronomy as a case study.* Guest Lecture for Emil Lawrence (Human Information Behavior), Rutgers University, December 2019; April 2020.

*Data Sharing, Part II: The Long Tail of science and astronomy as a case study.* Guest Lecture for Marie Radford (Theories and Issues in Library Studies), Rutgers University, November 2019.

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## SERVICE

- Member: **LIS Scholarships Committee** (Rutgers SC&I), 2020 - present
  - Member: LIS Education And Data Science-Integrated Network Group (**LEADING**), **Diversity and Inclusivity Task Force**, 2020 - present
  - Member: BioMagResBank-Prime (**BMRB-Prime**) data repository, **Advisory Board**, 2020 - present
  - Reviewer: Bulletins of the American Astronomical Society (**BAAS**), 2020
  - Reviewer: Libraries in the Digital Age (**LIDA**) conference, 2019
  - Reviewer: **iConference**, 2019, 2020
  - Member: **WorldWide Telescope Advisory Board**, 2017-present
  - Contributor: Unified Astronomy Thesaurus Steering Committee, 2016-2018
  - Contributor: Astrolabe Advisory Board, 2016-2018
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## AFFILIATIONS

- American Library Association (ALA)
  - Association for Information Science & Technology (ASIS&T)
  - Association for Library and Information Science Education (ALISE)
  - Network for Earth-space Research, Education and Innovation with Data (NEREID)
  - Oil Region Astronomical Society (ORAS)
  - Research Data Alliance (RDA)
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