# SOUVICK GHOSH

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Google Scholar: https://scholar.google.com/citations?user=csWO-d0AAAAJ&hl=en

## PERSONAL PROFILE

- Assistant Professor[1] (Tenure-Track), School of Information, San Jose State University, 2020 – Present.
- Program Coordinator, Bachelor of Science in Information Science and Data Analytics[2], School of Information, San Jose State University, 2020 – Present.
- Director, Intelligent Conversational Agents and Neural Networks (ICANN) Lab[3], 2020 – Present.
- AI Consultant and Co-Applicant, InterPARES Trust AI[4] (on projects "Employing AI for Retention & Disposition in Trusted Digital Recordkeeping Repositories" and "Personal Information Content Assessment"), 2021 – Present.

## RESEARCH INTERESTS

My research interests are **Conversational Retrieval Systems**, **Interactive Information Retrieval (IIR)**, and **Human-Computer Interaction (HCI)**. I consider myself to be a mixed-methods researcher and specialize in applications of **Deep Learning** and **Natural Language Processing (NLP)** techniques to solve problems in Information Retrieval (IR). I extensively use **Experimental Design** (both qualitative and quantitative) to assess **Human Information Behavior** and preferences while searching online. My current research focus on conversational search systems and AI-regulated protection of Personal Identifiable Information (PII).

## EDUCATION

Degree: Ph.D. in Communication, Information and Media

- Name of Institution: Rutgers University, New Brunswick
- Advisor: Dr. Chirag Shah (University of Washington at Seattle)
- Ph.D. Committee Members: Prof. Nicholas Belkin (Rutgers University), Dr. Vanessa Murdock (Amazon Research), and Dr. Katherina Ognyanova (Rutgers University).
- Award: Outstanding Graduating Student (Information Science) Award[5], School of Communication and Information, Rutgers University; Runner-up, iSchools Doctoral Dissertation Award[6] 2021.

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[1] https://ischoolapps.sjsu.edu/facultypages/view.php?fac=ghoshs
[2] https://ischool.sjsu.edu/bachelor-science-information-science-and-data-analytics
[3] https://ischool.sjsu.edu/icann-lab
[4] https://interparestrustai.org/
[5] https://comminfo.rutgers.edu/news/scis-2020-honors-day-celebration-recognized-faculty-students-and-staff
[6] https://ischools.org/Dissertation-Award-Past-Winners

Degree: Master's in Computer Science and Engineering
- Name of Institution: Jadavpur University, Kolkata, India

Degree: Bachelor's in Computer Science and Engineering
- Name of Institution: Jadavpur University, Kolkata, India

## PUBLICATIONS

Research Domains:

Conversational Search Systems, Human-Computer Interaction, Computational Social Science, Machine Learning, Natural Language Processing, Searching as Learning.

2020-Present:

Refereed Journal Article (Peer-reviewed):

1. [UNDER REVIEW] **Ghosh, S**., Gogoi, J., & Chua, K. (2022). Exploring the Economics of Conversational Search Sessions. In Aslib Journal of Information Management. [Student Co-authors]
2. [UNDER REVIEW] **Ghosh, S.** (2022). Analyzing Clarifications in Spoken Conversational Search through Experimental User Study. In ACM Transactions on the Web.
3. [UNDER REVIEW] **Ghosh, S.**, & Ghosh, S. (2022). Spoken Conversational Search Systems: From Natural Language Understanding to Search. In ACM Transactions on Information Systems. [Student Co-author]

Refereed Conference Paper (Peer-reviewed):

1. Caceres, I. & **Ghosh, S.** (2022). The Sound of Music: From Increased Personalization to Therapeutic Values. In *2022 Information Seeking in Context (ISIC) conference*, Berlin, Germany. [Full Paper] **[Best Paper Nomination]** [to be presented on 26-29 September, 2022] [Student Co-author]
2. Cannon, E., Crouse, B., **Ghosh, S.**, Rihn, N., & Chua, K. (2022, January). "Don't Downvote A\$\\$\\$\\$\\$\\$\\$ s!!": An Exploration of Reddit's Advice Communities. In *Proceedings of the 55th Hawaii International Conference on System Sciences.* [Full Paper] [Student Co-authors]
3. **Ghosh, S.** (2021). "Can You Search for Me?": Understanding and Improving User-System Dialogues for Complex Search Tasks. *Proceedings of the Association for Information Science and Technology, 58*(1), 173-184. [Full Paper]
4. **Ghosh, S.**, & Ghosh, S. (2021). "Do Users Need Human-like Conversational Agents?"– Exploring Conversational System Design Using Framework of Human Needs. In *Proceedings of Second International Conference on Design of Experimental Search & Information REtrieval Systems, Padova, Italy, September 15-18, 2021.* [Full Paper] [Student Co-author]
5. **Ghosh, S.** & Ghosh, S. (2021). Classifying Speech Acts using Multi-channel Deep Attention Network for Task-oriented Conversational Search Agents. In *Proceedings of the 2021 ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR' 21), March 14-19, 2021, Canberra, ACT, Australia*. [Short Paper] [Student Co-author]
6. **Ghosh, S.** (2021). Predicting Question Deletion and Assessing Question Quality in Social Q&A Sites using Weakly Supervised Deep Neural Networks. In *Proceedings of the 54th Hawaii International Conference on System Sciences (p. 2699).* [Full Paper]

7. **Ghosh, S.**, & Shah, C. (2020). Identifying Citation Sentiment and its Influence while Indexing Scientific Papers. In *Proceedings of the 53rd Hawaii International Conference on System Sciences (HICSS)*. January 7-10, 2020. Grand Wailea, Maui, HI. [Full Paper]

### Book Chapter (Editor-reviewed):

1. **Ghosh, S.** Human-centered Sentiment Analysis: Sentiment-Aware Design of Human-Computer Interactions. In Computational Intelligence Applications for Text and Sentiment Data Analysis. [Book Chapter] [Accepted]

### Articles in Research-Intensive Venues (Editor-reviewed):

1. Spina, D., Trippas, J. R., Thomas, P., Joho, H., Byström, K., Clark, L., Craswell, N., Czerwinski, M., Elsweiler, D., Frummet, A., **Ghosh, S**.... & Sitbon, L. (2021). Report on the Future Conversations Workshop at CHIIR 2021. In *SIGIR Forum* (Vol. 55, No. 1, p. 22). [Report]
2. **Ghosh, S.** (2021). Designing Human-Computer Conversational Systems using Needs Hierarchy. *School of Information Student Research Journal, 11*(1), 3. [Full Paper]

### Conference Panels and Workshops (Peer-reviewed):

1. Villagran, M., Hofman, D., & **Ghosh, S.** (September 2022). Understanding Sexual and Gender Minority Privacy. At *ALISE 2022 Annual Conference*. [Jury Panel]
2. Franks, P.C., **Ghosh, S.**, Hofman, D., & Mooradian, N. (2022). "AAA": Are you an AI-Aware Archivist?. At *2022 NAGARA Annual Conference: Exploring the Information Wilds!* [Panel]
3. **Ghosh, S.** (2021). Understanding Human-System Dialogues for Conversational Search Tasks. At *Early Career Colloquium (ECC), iConference 2021.*

### Other Conference Presentations (un-reviewed or informal), Workshops, Guest Lectures, and Posters:

1. Shah, C., Shapira, O., Chow, A., Glaser, N., & Ghosh, S. (September 2022). AI; UX and Usability; Cybernetic. At *2022 Information Science Summit.* [to be held in Sept., 2022]
2. Ghosh, S. (2022). Addressing Selection/Appraisal Biases with Artificial Intelligence. At *Artificial Intelligence in Archival Appraisal & Selection, International Council on Archives/Hub for AI Research in Archives.* [Webinar]
3. Ghosh, S., Schuh, J., Bunn, J., Bell, M., Young, P., & Venkata, S. (2022). Guidelines for the use of AI in archival Appraisal/Selection. At Artificial Intelligence in Archival Appraisal & Selection, International Council on Archives/Hub for AI Research in Archives. [Working Session]
4. Ghosh, S. (2022). Designing Intelligent Systems for Sociotechnical Problems. At *iSchool Faculty Research Committee (FRC) Meet-up*. [Presentation]
5. Ghosh, S. (2022). Designing User-Centered Conversational Search Systems. For *Interactive Information System Evaluation (Fall 2022), University of Oklahoma.* [Guest Lecture]
6. Franks, P., Ghosh, S., & Butler, A. (2022). Literature Review Prepared for Employing AI for Retention & Disposition in Digital Information and Recordkeeping Systems. *InterPARES.* [Report] [Student Co-author]
7. Franks, P., Ghosh, S., & Butler, A. (2022). Annotated Bibliography Prepared for Employing AI for Retention & Disposition in Digital Information and Recordkeeping Systems. *InterPARES*. [Report] [Student Co-author]

8. Gogoi, J., Ghosh, S., & Ghosh, S. (2021). Applying AI for PII Detection. List of products for the study "Personal Information Content Assessment," *InterPARES*. [Report] [Student Co-author]
9. Ghosh, S. (2021). Advancing Information Systems using A.I. - A closer look into Voice-based Conversational Systems and its applications in Library Science. *SJSU ASIS&T.* [Keynote Video]
10. Ghosh, S. (2021). Understanding and Designing User-centered Conversational Search Systems. Wednesday Workshop Series, *College of Professional and Global Education (CPGE).* [Presentation] [Video]
11. Ghosh, S. (2021). 2021 OCLC LEADING Data Challenge, OCLC. [Data Challenge]
12. Ghosh, S. (2020). Towards User-centered, Anthropomorphic, and Explainable Conversational Search System. Wednesday Workshop Series, *College of Professional and Global Education (CPGE).* [Presentation] [Video]

## Scholarly Blog Posts:

1. Ghosh, S. (2021). Future of AI in Libraries. School of Information Center for Information Research & Innovation (CIRI). [Blog Post]

## 2015-2019:

### Refereed Conference Paper (Peer-reviewed):

1. **Ghosh, S.** & Ghosh, S. (2019). Exploring the Ideal Depth of Neural Network when Predicting Question Deletion on Community Question Answering. In *Forum for Information Retrieval Evaluation* (in press). Springer, Cham. [Short Paper]
2. **Ghosh, S.**, & Shah, C. (2019). Session-based Search Behavior in Naturalistic Settings for Learning-related Tasks. In *Proceedings of International Conference on Information and Knowledge Management (CIKM)*. November 3-7, 2019. Beijing, China. [Short Paper]
3. **Ghosh, S.** (2019). Informing the Design of Conversational IR Systems: Framework and Result Presentation. In *Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 1454-1454). ACM. [Doctoral Consortia]
4. **Ghosh, S.** (2019). Exploring Result Presentation in Conversational IR Using a Wizard-of-Oz Study. In *European Conference on Information Retrieval* (pp. 327-331). Springer, Cham. [Doctoral Consortia]
5. **Ghosh, S.** (2019). Investigating Result Presentation in Conversational IR. In *Proceedings of the 2019 Conference on Human Information Interaction and Retrieval* (pp. 421-424). ACM. [Doctoral Consortia]
6. **Ghosh, S.**, Rath, M., & Shah, C. (2018). Searching as learning: Exploring search behavior and learning outcomes in learning-related tasks. In *Proceedings of the 2018 Conference on Human Information Interaction & Retrieval* (pp. 22-31). ACM. [Full Paper]
7. **Ghosh, S.**, & Shah, C. (2018). Towards automatic fake news classification. *Proceedings of the Association for Information Science and Technology*, *55*(1), 805-807. [Full Paper]
8. Rath, M., **Ghosh, S.,** & Shah, C. (2018). Exploring online and offline search behavior based on the varying task complexity. In *Proceedings of the 2018 Conference on Human Information Interaction & Retrieval* (pp. 285-288). ACM. [Short Paper]
9. Reynolds, R., Meyers, E., **Ghosh, S.**, & Novin, A. (2018). Beyond Bloom's Taxonomy: Integrating "searching as learning" and e-learning research perspectives. *Proceedings of the Association for Information Science and Technology*, *55*(1), 726-729. [Short Paper]

10. Singh, V. K., **Ghosh, S.**, & Jose, C. (2017). Toward multimodal cyberbullying detection. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (pp. 2090-2099). ACM. [Extended Abstract]
11. **Ghosh, S.**, Ghosh, S., & Das, D. (2017). Sentiment identification in code-mixed social media text. In *International Conference on Intelligent Text Processing and Computational Linguistics (CICLING)*, Budapest, Hungary. [Full Paper]
12. **Ghosh, S.**, Ghosh, S., & Das, D. (2017). Complexity metric for code-mixed social media text. *Computación y Sistemas*, *21*(4), 693-701. [Full Paper]
13. **Ghosh, S.**, Ghosh, S., & Das, D. (2016). Part-of-speech tagging of code-mixed social media text. In *Proceedings of the Second Workshop on Computational Approaches to Code Switching* (pp. 90-97). [Full Paper]
14. **Ghosh, S.**, Das, D., & Chakraborty, T. (2016). Determining sentiment in citation text and analyzing its impact on the proposed ranking index. In *International Conference on Intelligent Text Processing and Computational Linguistics* (pp. 292-306). Springer, Cham. [Full Paper]

Conference Panels and Workshops (Peer-reviewed):

1. **Ghosh, S.**, Maitra, P., & Das, D. (2016). Feature Based Approach to Named Entity Recognition and Linking for Tweets. In *# Microposts* (pp. 74-76). [Workshop Paper]
2. **Ghosh, S.**, Ghosh, S., & Das, D. (2016). Labeling of Query Words using Conditional Random Field. *arXiv preprint arXiv:1607.08883*. [Workshop Paper]
3. Maitra, P., **Ghosh, S.**, & Das, D. (2016). *Authorship Verification-An Approach based on Random Forest. arXiv preprint arXiv:1607.08885.* [Workshop Paper]

Doctoral Dissertation:

1. **Ghosh, S.** (2020).  Exploring intelligent functionalities of spoken conversational search systems (Doctoral dissertation, Rutgers University-School of Graduate Studies).

Refereed Conference Poster (Peer-reviewed):

1. **Ghosh, S.**, & Shah, C. (2017). Information seeking in learning-oriented search. Proceedings of the Association for Information Science and Technology, 54(1), 682-684. [Poster]

# GRANTS AND AWARDS

Extramural Grants:

1. Ghosh, S. (2022 - Principal Investigator). CRII: HCC: Towards Accessible and User-Centered Conversational Search Systems. **NSF CRII** (CISE Research Initiation Initiative) research grant in Information and Intelligent Systems (IIS): Human-Centered Computing (HCC). [USD 174,858] [Submitted]
2. Ghosh, S. (2021 - Co-Principal Investigator). DASS: Legally, Algorithmically and Culturally Aware Systems of Accountability (LACASA). **NSF DASS** (Designing Accountable Software Systems) [USD 749,961] [Being Prepared for Resubmission]
3. Ghosh, S. (2021 - Principal Investigator). CRII: HCC: Toward User-Centered and Anthropomorphic Conversational Search Systems. **NSF CRII** (CISE Research Initiation Initiative) research grant in Information and Intelligent Systems (IIS): Human-Centered Computing (HCC). [USD 174,968] [Not Funded]
4. Ghosh, S. (2020 - Principal Investigator). CRII: IIS: Toward User-Centered and Anthropomorphic Conversational Search Systems. NSF CRII (CISE Research Initiation

Initiative) research grant in Information and Intelligent Systems (IIS). [USD $175,000] [Not Funded]

## Other Awards and Honors:

### 2020-Present:

1. Recipient, 2021 iConference Dissertation Award (Runner-up)[7]. *iConference*. Awarded to acknowledge the excellence of my dissertation titled "Exploring Intelligent Functionalities of Spoken Conversational Search Systems." [USD 1,000]
2. Funded, University Grants Academy (Summer 2022), *SJSU*. Awarded to support writing a significant external grant proposal to fund research, scholarship, and creative activity (RSCA). SJSU Award Number 22-UGA-07-012. [USD 4,000]
3. Funded, CPGE Summer Research Stipend (2022). Ghosh, S. (2022 - Principal Investigator). Towards privacy-aware conversational search systems. *College of Professional and Global Education.* [USD 2,000]
4. Funded, CPGE Summer Research Stipend (2021). Ghosh, S. (2021 - Principal Investigator). *College of Professional and Global Education.* Awarded to support ongoing research on i) Developing theoretical frameworks for spoken conversational search systems; ii) Identifying user sentiment and misinformation in COVID-19 tweets. [USD 2,000]
5. Funded, COVID-19 Extramural Funding Incentive Program Award (2020). *San Jose State University.* [USD 500]
6. Recipient, CPGE Research Assistant Support (2022). *College of Professional and Global Education.* Awarded one research assistant for Spring and Summer 2022 for up to 10 hours per week to support RSCA projects: i) COVID-19 Social Media Analysis; ii) Exploring Clarification Types in Information Seeking Conversations.
7. Recipient, CPGE Research Assistant Support (2021). *College of Professional and Global Education.* Awarded two research assistants for Spring, Summer, and Fall 2021 for up to 10 hours per week to support RSCA projects: i) Development of conversational search systems; ii) COVID-19 Social Media Analysis.
8. Recipient, Outstanding Graduating Student (Information Science) Award (2020). *School of Communication and Information, Rutgers University.*

### 2015-2019:

1. Recipient, SC&I Dissertation Grant (2020), *School of Communication and Information.* [USD 1,000]
2. Recipient, LIS Dissertation Support Grant Award, LIS Research Development Committee, School of Communication and Information. [USD 625]
3. Recipient, SC&I November 2019 PhD Travel Awards (HICSS 2020, Hawaii), *School of Communication and Information.* [USD 750]
4. Recipient, PhD Travel Awards (FIRE 2019, Kolkata), SC&I November 2019 PhD Travel Awards, *School of Communication and Information.* [USD 1,000]
5. Recipient, PhD Travel Awards (CIKM 2019, Beijing), SC&I November 2019 PhD Travel Awards, *School of Communication and Information.* [USD 1,000]
6. Recipient, Travel Awards (Merit) (SIGIR 2019, Paris), *School of Graduate Studies, Rutgers University.* [USD 300]

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[7] https://ischools.org/Dissertation-Award-Past-Winners

7. Recipient, June 2019 Travel Awards (SIGIR 2019, Paris), *School of Communication and Information*. [USD 750]
8. Recipient, SIGIR Travel Grant (SIGIR 2019, Paris), *ACM.* [USD 1,000]
9. Recipient, Summer Methods Workshop Funding (Data Science Salon, Miami), *School of Communication and Information.* [USD 2,000]
10. Recipient, Spring (March) Travel Awards (Merit) (CHIIR 2019, Glasgow), *School of Graduate Studies, Rutgers University.* [USD 250]
11. Recipient, Spring (March) Travel Awards (CHIIR 2019, Glasgow), *School of Communication and Information*. [USD 750]
12. Recipient, Spring (March) 2019 Travel Awards (ECIR 2019, Cologne), *School of Communication and Information.* [USD 750]
13. Recipient, ECIR Student Grant (ECIR 2019, Cologne), *ECIR.* [Registration Fees]
14. Recipient, SIGIR Travel Grant (CHIIR 2019, Glasgow), *ACM.* [USD 2,000]
15. Recipient, Fall 2018 Travel Awards (HICSS 2019, Hawaii), *School of Communication and Information.* [USD 700]
16. Recipient, Fall 2018 Travel Awards (Merit) (HICSS 2019, Hawaii), *School of Graduate Studies, Rutgers University.* [USD 300]
17. Recipient, Fall 2018 Travel Awards (ASIS&T 2018, Vancouver), *School of Communication and Information.* [USD 700]
18. Recipient, Fall 2018 Travel Awards (SIGIR 2018, Ann Arbor), *School of Communication and Information*. [USD 500]
19. Recipient, March 2018 Travel Awards (HCI International 2018, Las Vegas), *School of Communication and Information.* [USD 500]
20. Recipient, March 2018 Travel Awards (CHIIR 2018, New Brunswick), *School of Communication and Information*. [USD 500]
21. Recipient, SC&I Travel Awards (ASIS&T 2017, Washington), *School of Communication and Information*. [USD 500]
22. Recipient, DAAD Fellowship (Autumn School for Information and Retrieval Information Foraging 2017, Schloß Dagstuhl), *DAAD.* [All Expenses]
23. Recipient, DAAD Fellowship (ASIRF 2015, Katlenburg), *DAAD.* [All Expenses]

## SERVICES

### 2020-Present

#### Elected or Appointed Position of Leadership within School, College, University, and/or Profession:

1. Program Coordinator, Bachelor of Science in Information Science and Data Analytics (BSISDA), School of Information, SJSU. 2020-Present.
2. Co-chair, Panels and Alternative Events, Association for Information Science and Technology (ASIS&T) Annual Meeting, 2022.
3. Minitrack Chair, Human-centered Digital Privacy Solutions for Digital and Social Media Minitrack, 56th Hawaii International Conference on Systems Sciences, 2022.
4. Chair-Elect, Special Interest Group in Social Media (SIG SM), Fall 2022 – Present.
5. Jury Member, Lois Lunin Award, Association for Information Science and Technology (ASIS&T) Annual Meeting, 2022.
6. Jury Member, Doctoral Dissertation Proposal Scholarship, Association for Information Science and Technology (ASIS&T) Annual Meeting, 2022.

7. AI Consultant and Co-Applicant, [InterPARES Trust AI](#) (Projects "Employing AI for Retention & Disposition in Trusted Digital Recordkeeping Repositories" and "Personal Information Content Assessment").

## University-level Appointed Positions:

1. Member, General Education Advisory Committee (GEAC), University Senate Committee, San Jose State University, 2021-Present.
2. Member, Peer Connections Faculty Advisory Board, Spring 2022.
3. Committee Member, Faculty Learning Community, San Jose State University, Fall 2020.

## College-level Appointed Positions:

1. Committee Member, Search Committee (for Student Academic Success Specialist), College of Professional & Global Education (SJSU), Spring 2022.
2. Committee Member, Search Committee (for Director of the Student Success Center), College of Professional & Global Education (SJSU), Fall 2020 – Spring 2021.
3. Committee Member, Academic Committee on Equity, Diversity, and Inclusion (EDI), College of Professional & Global Education (SJSU), Fall 2022 – Present.

## Department-level Appointed Positions and Advising:

1. Member, Technology and Resources Committee, School of Information (iSchool), San Jose State University, 2020–Present.
2. Member, Program Development Committee, Bachelor of Science in Information Science and Data Analytics (BSISDA), School of Information (iSchool), San Jose State University, 2020.
3. E-portfolio advisor to 20+ students per semester (60+ during the period of review).

## Professional Committees and Organizing:

1. Organizer & Moderator, Productive Methods and Scholarly Communication (Information Science Slam), Association for Information Science and Technology (ASIS&T) Annual Meeting, 2022.
2. Organizer, (Panel) How to Prepare for Academia and Industry? The Million-Dollar Question, Association for Information Science and Technology (ASIS&T) Annual Meeting, 2022.
3. Member, Program Committee (PC) (Demonstration Papers), 45th International ACM SIGIR Conference on Research and Development, 2022.
4. Member, Program Committee, ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR), 2020-Present.
5. Moderator, Paper Session 7 (Information Interactions with the Healthcare System), Association for Information Science and Technology (ASIS&T) Annual Meeting, 2021.
6. Member, Program Committee, 2nd International Conference on Data Science and Applications (ICDSA), 2021.
7. Panelist, Exploring Majors & Careers in Analytics, AARS and the Career Center, San Jose State University, 2021.
8. Member, Program Committee, 17th International Conference on Natural Language Processing (ICON), 2020.

## Reviewing:

1. Reviewer (Journal), ACM Transactions on Information Systems, 2021-Present.
2. Reviewer (Journal), Information Processing and Management (IP&M) (Journal), 2022-Present.

3. Reviewer (Journal), Journal of the Association for Information Science and Technology (JASIST), 2021-Present.
4. Reviewer (Journal), MDPI, Information (Journal), 2022-Present.
5. Reviewer, Hawaii International Conference on System Sciences (HICSS), 2020- Present.
6. Reviewer, Association for Information Science and Technology (ASIS&T) Annual Meeting, 2021 – Present.

### Service to Students:

1. Director and PI, Intelligent Conversational Agents and Neural Networks (ICANN) Lab8, School of Information, San Jose State University, 2020–Present.
2. Faculty Advisor, Gateway PhD program, School of Information (iSchool), San Jose State University, Fall 2022–Present.
3. Advisor to 4 graduate students (2020-2022) pursuing in INFO 298 (Special Studies).
4. Mentor to 10+ students per semester (20+ during the period of review) from graduate, undergraduate, and high school levels at the ICANN lab.

### 2015-2019:

### Professional Committees and Organizing:

1. Committee Member, Local Organizing Committee, ACM CHIIR 2018.
2. Officer, Special Interest Group in Social Media (SIG-SM), ASIS&T, 2018-2019.
3. ACM SIGIR Student Liaison for North America, ACM SIGIR, 2018-2020.
4. LEADS-4NDP Fellow, LEADS, 2018.
5. Director of Membership, SC&I Doctoral Student Association, Rutgers University (2017-2018)
6. School Liaison, AAUP-AFT, Rutgers University (2017-2019)
7. Guest Speaker, Social Informatics, ITI program, SC&I, Rutgers University.
8. Student Volunteer, ACM SIGIR, 2018-2019,
9. Student Volunteer, ASIS&T 2018.
10. Lead Researcher, NeuIR Lab, SC&I, Rutgers University (2018-2020)

### Reviewing:

1. Reviewer: The Web Conference (WWW), 2019.
2. Reviewer, Hawaii International Conference on System Sciences (HICSS), 2019.
3. Reviewer (Journal), Information and Learning Sciences, 2019-2020.
4. Reviewer (Journal): International Journal of Healthcare Information Systems and Informatics (IJHISI), 2017-2018.

## TEACHING EXPERIENCE

- Assistant Professor (School of Information, SJSU), 2020-Present
  - Problem Solving with Data I (INFO 287-02 and 16)(Fall 2022, 2021, 2020) (MLIS)
  - Problem Solving with Data II (INFO 287-15)(Spring 2022, 2021) (MLIS)
  - Information Retrieval System Design (INFO 202-12)(Fall 2022, Summer 2022, Spring 2022, Fall 2021, Summer 2021, Spring 2021)
  - Math for Machine Learning (Spring 2022)
- Lecturer/Instructor (School of Communication & Information, Rutgers University), 2017-2020

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8 https://ischool.sjsu.edu/icann-lab

- o Problem-Solving with Data (Fall 2019, Spring 2020 - Online, Spring 2019 - Offline) – PG Level (MLIS)
- o Object-Oriented Programming (Summer 2019) – UG Level (ITI)
- o Concepts of Computer Science (Summer 2019, Fall 2018, Summer 2017) – UG Level (ITI)
- Teaching Assistant (School of Communication & Information, Rutgers University), 2017-2020
  - o Problem Solving with Data (Spring 2018)
  - o Human-Computer Interaction (Fall 2017)

## PAST PROFESSIONAL EXPERIENCE

- Research Assistant, NSF Project on Cyberbullying Prevention, Rutgers University, 2016-2017.
- Fellow, LEADS-4-NDP 2018 Fellowship – a collaboration with OCLC Research and Drexel University, 2018.
- Summer Intern (Sentiment Analysis), Industrial Technology Research Institute, Taiwan, 2015.
- Consultant (Business Intelligence), PwC Pvt. Ltd., 2011-2012.

## SKILLS

- Deep Learning:
  - o Keras, Tensorflow, PyTorch (Proficient)
- High-Level Languages
  - o C, Java, C#, C++, Python (Proficient)
  - o MATLAB, Ruby, Hadoop, Spark (Familiar)
- Experimental Design
- Query Languages:
  - o SQL, PL/SQL, ACL
- Agile Methodology
- Professional Development Trainings
  - o SJSU Teach Online Winter Certificate Program [URL to Certificate]
  - o SJSU Resilient Course Design Institute [URL to Certificate]

## REFERENCES

On request.