

Vinodkumar Prabhakaran

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Areas of Specialization

Natural Language Processing • Machine Learning • AI Ethics

Current Position

2018- *Research Scientist*, Google LLC, San Francisco.
Ethical Artificial Intelligence and Machine Learning Fairness.

Education

2015-2018 *Postdoctoral Researcher*, Computer Science, Stanford University
Computational Modeling of Police Speech: Using Language Technologies to Improve Police -
Community Interactions
PIs: Prof. Dan Jurafsky (Linguistics and Computer Science), Prof. Jennifer Eberhardt (Psychology)

2010-2015 PhD in Computer Science, Columbia University, New York, USA
Social Power in Interactions: Computational Analysis and Detection of Power Relations
Advisors: Dr. Owen Rambow (primary) and Dr. Mona Diab (secondary)
Committee: Prof. Kathleen McKeown, Prof. Julia Hirschberg, Prof. Marilyn Walker (+ Advisors)

2008-2009 MS in Computer Science, Columbia University, New York, USA
Advisor: Prof. Rocco Servedio

2000-2004 BTech in Computer Science and Engineering, Cochin University, Kerala, India

Grants, Awards and Achievements

2018 **Cialdini Prize** (Best Paper). For the 2017 PNAS paper *Language from police body camera footage shows racial disparities in officer respect*. Society for Personality and Social Psychology.

2017 **Cozzarelli Prize** (Best Paper in Behavioral and Social Sciences). For the PNAS paper *Language from police body camera footage shows racial disparities in officer respect*. National Academy of Sciences.

- 2017 **Co-PI.** Crowd Flower Impact Sponsorship (\$175K) for proposal: “Fostering Civility in Online Communication”. Collaborators: Prof. Yulia Tsetkov, Prof. David Jurgens, Prof. Dan Jurafsky.
- 2016 **Best Reviewer** (top 17.5 percentile of the reviewer pool). North American Chapter of the Association for Computational Linguistics (NAACL), San Diego, USA.
- 2014 **Best Short Paper Honorable Mention** (out of 139 accepted papers @ 25% acceptance rate). Annual Meeting of the Association for Computational Linguistics (ACL), Baltimore, USA.
- 2007 **Best Paper Honorable Mention** (out of around 25 accepted papers). Technical Architects Conference at Tata Consultancy Services (TACTiCS), Charlotte, NC.
- 2004 **All India Rank 317** (top 1 percentile of grad school applicants). Graduate Aptitude Test in Engineering (GATE), Indian Institute of Technology (IIT) Madras, India.

Past Research and Professional Experience

- 2009-2015 *Graduate Research Assistant*, Center for Computational Learning Sys., Columbia University, NY
- Summer 2014 *Software Engineering Intern*, Google Local Question Answering, New York, NY
- Summer 2013 *Research Intern*, IBM Watson (DeepQA), Yorktown Heights, NY
- Summer 2012 *Research Scientist Intern*, Collaborative Applications Research, Avaya Labs, NJ.
- Summer 2011 *Research Intern*, Semantic Heart, Siemens Corporate Research, NJ
- 2004-2008 *Assistant Systems Engineer*, TATA Consultancy Services Limited (TCSL), Chennai, India.

Publications

DISSERTATION

- 2015 1. **V. Prabhakaran**. Social Power in Interactions: Computational Analysis and Detection of Power Relations. Ph.D. Thesis, Columbia University, September 2015.

PUBLIC REPORTS

- 2020 3. **V. Prabhakaran**, Z. Waseem, S. Akiwowo, B. Vidgen. Online Abuse and Human Rights: WOH Satellite Session at RightsCon 2020. In Proceedings of the Fourth Workshop on Online Abuse and Harms. Nov 2020.
- 2016 2. **V. Prabhakaran**, N. P. Camp, D. Jurafsky, and J. L. Eberhardt. Expert and Automated Analysis of Officer Narratives. In Eberhardt, J. L. (Ed.), Strategies for change: Research initiatives and recommendations to improve police-community relations in Oakland, Calif. Stanford SPARQ. June 2016.
1. R Voigt, N. P. Camp, **V. Prabhakaran**, W. L. Hamilton, R. C. Hetey, C. M. Griffiths, D. Jurgens, K. Pauker, D. Jurafsky, and J. L. Eberhardt. Automated Analysis of Body-Worn Camera Footage. In Eberhardt, J. L. (Ed.), Strategies for change: Research initiatives and recommendations to improve police-community relations in Oakland, Calif. Stanford SPARQ. June 2016.

PEER REVIEWED JOURNAL PUBLICATIONS

- 2020 4. **V. Prabhakaran**, D. Martin Jr. Participatory Machine Learning Using Community-Based System Dynamics. *Health and Human Rights Journal Viewpoints*. Dec 2020. (Invited paper).
- 2018 3. **V. Prabhakaran**, C. Griffiths, H. Su, P. Verma, N. Morgan, J. Eberhardt and D. Jurafsky. Detecting Institutional Dialog Acts in Police Traffic Stops. *Transactions of Association for Computational Linguistics (TACL)*. July 2018.
- 2017 2. R. Voigt, N. Camp, **V. Prabhakaran**, W. Hamilton, R. Hetey, C. Griffiths, D. Jurgens, D. Jurafsky, and J. Eberhardt. Language from police body camera footage shows racial disparities in officer respect. *Proceedings of the National Academy of Sciences (PNAS)*. June 2017.
1. **V. Prabhakaran**, O. Rambow. Dialog Structure Through the Lens of Gender, Gender Environment, and Power. *Journal for Dialogue & Discourse*, Spring Issue. April 2017.

PEER REVIEWED CONFERENCE PROCEEDINGS

- 2021 25. **V. Prabhakaran**, M. Rei, E. Shutova. How Metaphors Impact Political Discourse: A Large-Scale Topic-Agnostic Study Using Neural Metaphor Detection. In *Proceedings of the International Conference on Web and Social Media*. Jun 2021. Virtual.
24. D. Demszky, D. Sharma, J. Clark, **V. Prabhakaran** and J. Eisenstein. Learning to Recognize Dialect Features. In *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics*. Jun 2021. Virtual.
23. N. Sambasivan, E. Arnesen, B. Hutchinson, T. Doshi, **V. Prabhakaran**. Re-imagining Algorithmic Fairness in India and Beyond. In *Proceedings of the ACM Conference on Fairness Accountability and Transparency*. Mar 2021. Virtual.
- 2020 22. B Hutchinson, **V. Prabhakaran**, E Denton, K Webster, Y Zhong, S Denuyl. Social Biases in NLP Models as Barriers for Persons with Disabilities. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, Jul 2020. Virtual.
- 2019 21. **V. Prabhakaran**, B. Hutchinson, M. Mitchell. Perturbation Sensitivity Analysis to Detect Unintended Model Biases. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Nov 2019, Hong Kong.
- 2018 20. **V. Prabhakaran**, P. Ganeshkumar, O. Rambow. Author Commitment and Social Power. In *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, June 2018, New Orleans, USA.
19. R. Voigt, D. Jurgens, **V. Prabhakaran**, D. Jurafsky, Y. Tsvetkov. RtGender: A Corpus of Responses to Gender for Studying Gender Bias. In *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC)*, May 2018, Miyazaki, Japan.
- 2017 18. H. Wachsmuth, N. Naderi, Y. Hou, Y. Bilu, **V. Prabhakaran**, T. A. Thijm, G. Hirst, B. Stein. Towards Computational Argumentation Quality in Natural Language. In *Proceedings of the 15th European Chapter of the Association for Computational Linguistics (EACL)*, April 2017, Valencia, Spain.
- 2016 17. **V. Prabhakaran**, W. L. Hamilton, D. McFarland and D. Jurafsky. Predicting the Rise and Fall of Scientific Topics from Trends in their Rhetorical Framing. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*. August 2016. Berlin, Germany.
16. **V. Prabhakaran**, O. Rambow. A Corpus of Wikipedia Discussions: Over the Years, with Topic, Power and Gender Labels. In *Proceedings of the Tenth International Conference on Language Re-*

- sources and Evaluation (LREC). May 2016. Portoroz, Slovenia.
- 2015 15. **V. Prabhakaran**, M. Saltzman, O. Rambow. How Powerful are You? gSPIN: Bringing Power Analysis to Your Finger Tips. In Proceedings of the 25th International Conference Companion on World Wide Web (WWW). April 2016. Montreal, Canada.
14. **V. Prabhakaran**, T. By, J. Hirschberg, O. Rambow, S. Shaikh, T. Strzalkowski, J. Tracey, M. Arrigo, R. Basu, M. Clark, A. Dalton, M. Diab, L. Guthrie, A. Prokofieva, S. Strassel, G. Werner, J. Wiebe and Y. Wilks. A New Dataset and Evaluation for Belief/Factuality. Conference on Lexical and Computational Semantics (*SEM). June 2015. Denver, USA.
13. **V. Prabhakaran** and B. Boguraev. Learning Structures of Negations from Flat Annotations. Conference on Lexical and Computational Semantics (*SEM). June 2015. Denver, USA.
- 2014 12. **V. Prabhakaran**, E. Reid and O. Rambow. Gender and Power: How Gender and Gender Environment Affect Manifestations of Power. In Proceedings of the Empirical Methods for Natural Language Processing (EMNLP). October 2014. Doha, Qatar.
11. **V. Prabhakaran**, A. Arora and O. Rambow. Staying on Topic: An Indicator of Power in Political Debates. In Proceedings of the Empirical Methods for Natural Language Processing (EMNLP): short papers. October 2014. Doha, Qatar.
10. **V. Prabhakaran** and O. Rambow. Predicting Power Relations between Participants in Written Dialog from a Single Thread. In Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL): short papers. June 2014. Baltimore, USA. (**Best Paper Hon. Mention**)
- 2013 9. **V. Prabhakaran**, A. John, D. Seligmann. Who Had the Upper Hand? Ranking Participants of Interactions Based on Their Relative Power. In Proceedings of the Sixth International Joint Conference on Natural Language Processing (IJCNLP). October 2013. Nagoya, Japan.
8. **V. Prabhakaran** and O. Rambow. Written Dialog and Social Power: Manifestations of Different Types of Power in Dialog Behavior. In Proceedings of the Sixth International Joint Conference on Natural Language Processing (IJCNLP). October 2013. Nagoya, Japan.
7. A. Omuya, **V. Prabhakaran**, O. Rambow. Improving the Quality of Minority Class Identification in Dialog Act Tagging. In Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT): short papers. June 2013. Atlanta, GA, USA
6. **V. Prabhakaran**, A. John, D. Seligmann. Power Dynamics in Spoken Interactions: A Case Study on 2012 Republican Primary Debates. In Proceedings of the 22th International Conference Companion on World Wide Web (WWW). May 2013. Rio de Janeiro, Brazil.
- 2012 5. **V. Prabhakaran**, O. Rambow, M. Diab. Who's (Really) the Boss? Perception of Situational Power in Written Interactions. In Proceedings of the Conference on Computational Linguistics (COLING). December 2012. Mumbai, India.
4. K. Tymoshenko, S. Somasundaran, **V. Prabhakaran**, V. Shet. Relation Mining in the Biomedical Domain using Entity-level Semantics. In Proceedings of the 19th European Conference on Artificial Intelligence. August 2012. Montpellier, France.
3. **V. Prabhakaran**, O. Rambow, M. Diab. Predicting Overt Display of Power in Written Dialogs. In Proceedings of North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT): short papers. June 2012. Montreal, Canada.

2. **V. Prabhakaran**, H. Neralwala, O. Rambow and M. Diab. Annotations for Power Relations on Email Threads. In Proceedings of the Eighth International Conference on Language Resources and Evaluation (LREC). May 2012. Istanbul, Turkey.
- 2010 1. **V. Prabhakaran**, O. Rambow, M. Diab. Automatic Committed Belief Tagging. In Proceedings of the Conference on Computational Linguistics (COLING). August 2010. Beijing, China.
- PEER REVIEWED WORKSHOP PROCEEDINGS
- 2020 11. N. Sambasivan, E. Arnesen, B. Hutchinson, **V. Prabhakaran**. Non-portability of Algorithmic Fairness in India. NeurIPS workshop on Navigating the Broader Impacts of AI Research. Dec 2020. (non-archival)
10. D. Martin, **V. Prabhakaran**, J. Kuhlberg, A. Smart, W. Isaac. Participatory Problem Formulation for Fairer Machine Learning Through Community Based System Dynamics. CHI Workshop on Human-Centered Approaches to Fair and Responsible AI. Apr 2020. Honolulu, HI, USA. (non-archival)
9. D. Martin, **V. Prabhakaran**, J. Kuhlberg, A. Smart, W. Isaac. Participatory Problem Formulation for Fairer Machine Learning Through Community Based System Dynamics Approach. ICLR Machine Learning In Real Life (ML-IRL) Workshop. Apr 2020. Addis Ababa, Ethiopia. (non-archival)
- 2019 8. B. Hutchinson, **V. Prabhakaran**, E. Denton, K. Webster, Y. Zhong, and S.C. Denuyl. Unintended Machine Learning Biases as Social Barriers for Persons with Disabilities. SIGACCESS ASSETS Workshop on AI Fairness for People with Disabilities. Oct 2019, Pittsburgh, PA. (non-archival)
- 2018 7. M. Lam, C. Xu, A. Kong, **V. Prabhakaran**. Power Networks: A Novel Neural Architecture to Predict Power Relations. In Proceedings of Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature, pages 97–102. August 2018, Santa Fe, USA.
- 2015 6. G. Werner, **V. Prabhakaran**, M. Diab, O. Rambow. Committed Belief Tagging on the Factbank and LU Corpora: A Comparative Study. In Proceedings of the NAACL Workshop on Extra-propositional aspects of meaning in computational linguistics (ExProM). June 2015. Denver, USA.
- 2014 5. **V. Prabhakaran**, A. Arora and O. Rambow. Power of Confidence: How Poll Scores Impact Topic Dynamics in Political Debates. In Proceedings of the Joint ACL Workshop on Social Dynamics and Personal Attributes in Social Media. October 2014. Baltimore, USA.
- 2012 4. **V. Prabhakaran**, M. Bloodgood, M. Diab, B. J. Dorr, L. Levin, C. Piatko, O. Rambow, B. Van Durme. Statistical Modality Tagging from Rule-based Annotations and Crowdsourcing. In Proceedings of the ACL Workshop on Extra-propositional aspects of meaning in computational linguistics (ExProM). July 2012. Jeju, S. Korea.
3. **V. Prabhakaran**. Detecting Power Relations from Written Dialog. In Proceedings of the ACL Student Research Workshop. July 2012. Jeju, South Korea.
- 2010 2. **V. Prabhakaran**. Uncertainty Learning Using SVMs and CRFs. In Proceedings of the Fourteenth Conference on Computational Natural Language Learning: Shared Task, Uppsala, Sweden, 15-16 July 2010.
- 2009 1. M.T. Diab, L. Levin, T. Mitamura, O. Rambow, **V. Prabhakaran**, W. Guo. Committed Belief Annotation and Tagging. In Proceedings of the ACL Workshop on Linguistic Annotation (LAW3). August 2009. Suntec, Singapore.

Professional Service

- Ongoing Reviewing/Program Committee for many (but not all) iterations of NLP/ML conferences: ACL, NAACL, EMNLP, COLING, LREC, ICWSM, IJCAI, and various associated workshops, as well as journals such as CL, PLOS One, etc.
- 2021 Review panel member. NSF SBIR/STTR Phase I review panel in the “Language-based AI” topic.
Ad-hoc reviewer. Two NSF SBIR/STTR Phase I proposals in the “Language-based AI” topic.
Area Chair. Ethics and NLP. Association of Computational Linguistics (ACL).
Area Chair. Ethics and NLP. North American Association of Computational Linguistics (NAACL).
- 2020 Diversity & Inclusion Co-Chair. Association of Computational Linguistics (ACL).
Area Chair. Ethics and NLP. Association of Computational Linguistics (ACL).
Organizing Committee Co-Chair: Fourth International Workshop on Online Abuse and Harms (WOAH). EMNLP 2020.
Editorial Board: Special Issue on Abusive Language Online. First Monday Journal.
- 2019 Area Chair. NLP Applications. Association of Computational Linguistics (ACL).
Organizing Committee Co-Chair: Third International Workshop on Abusive Language Online. Association for Computational Linguistics.
- 2018 Organizing Committee Co-Chair: Second International Workshop on Abusive Language Online. Association for Computational Linguistics.
- 2012 Session Chair: International Workshop on Extra-propositional aspects of Meaning (ExProM).

Talks/Panels/Lectures/Tutorials

- 2021 39. Invited Speaker. UCSF Health Informatics Grand Rounds. Apr 2021.
38. Keynote Speaker. First Workshop on Language Technology for Equality, Diversity and Inclusion. European ACL (EACL). Kiev, Ukraine. (held virtually) Apr 2021.
37. Invited Panelist. USC Symposium on Equity & AI. Apr 2021.
36. Invited Speaker. IIT Kharagpur, India. AI and Ethics. Mar 2021.
35. Invited Speaker. Penn State AI for Social Impact Seminar Series. Feb 2021.
- 2020 34. Invited Panelist. AI Fairness & Employment of Persons with Disabilities. Interagency Accessibility Forum. U.S. General Services Administration and the U.S. Census Bureau. Oct 2020.
33. Invited Speaker at the Educational Testing Services (ETS). Sep 2020.
- 2019 32. Invited Panelist: “Global Implications”. Minding the GAP Workshop. NeurIPS. Dec 2019.
31. Invited Panelist: A Human Rights-based Approach to AI. Geneva, Switzerland. UN Global Pulse and UN Human Rights. Nov 2019.

- 30. Tutorial on "Bias and Fairness in Natural Language Processing". EMNLP, Hong Kong, Nov 2019.
- 29. Invited Panelist: UCSB Responsible Machine Learning Summit. Santa Barbara, USA. Oct 2019.
- 28. Invited Speaker at University of Amsterdam. Amsterdam, Netherlands.
- 27. Invited Speaker at AthNLP Summer School. Athens, Greece.
- 26. Tutorial on *Socially Responsible NLP*. The Web Conference (previously, WWW).
- 2018 25. Invited Panelist: Queer in AI Satellite Workshop. NeurIPS (previously, NIPS).
- 24. University of Melbourne, Melbourne. "Language Technologies for Social Good". July 2018.
- 23. Invited Panelist: Ethics in NLP. NAACL Industry Track. June 2018.
- 22. Tutorial on *Socially Responsible NLP*. NAACL. June 2018.
- 21. Google, Mountain View.. "Language Technologies for Social Good". April 2018.
- 20. Bocconi University, Dept. of Marketing, Milan, Italy.. "Language Technologies for Social Good". March 2018.
- 19. Carnegie Mellon University, Machine Learning Dept.. "Language Technologies for Social Good". March 2018.
- 18. University of Illinois Urbana Champaign, CS Department.. "Language Technologies for Social Good". March 2018.
- 17. Oregon State University, EECS Department.. "Language Technologies for Social Good". March 2018.
- 16. Pennsylvania State University, College of Information Sciences and Technology.. "Language Technologies for Social Good". February 2018.
- 2017 15. Invited Panelist: International Workshop on Abusive Language Online. June 2017.
- 14. University of Southern California. NLP for Social Good: Inferring Social Context from Language. February 2017.
- 13. New York University, Talk series on NLP and Text as Data. NLP for Social Good: Inferring Social Context from Language. February 2017.
- 12. Columbia University, NLP Meeting. NLP for Social Good: Inferring Social Context from Language. February 2017.
- 2015 11. Dagstuhl Seminar: Debating Technologies. "Argument(ation) and Social Context". December 2015.
- 10. University of Berkeley, NLP seminar. "Social Power in Interactions: Computational Analysis and Detection of Power". December 2015.
- 9. Stanford University, NLP Lunch seminar. "Social Power in Interactions: Computational Analysis and Detection of Power". October 2015.
- 8. Stanford University Sociolunch seminar. "Social Power in Interactions: Computational Analysis and Detection of Power". October 2015.
- 7. University of Edinburgh, Institute of Language, Cognition and Computation. "Social Power in Interactions: Computational Analysis and Detection of Power". August 2015.

6. Goldman Sachs, New York. “Analysis of Email for Manifestations of Power”. March 2015.
5. Georgia Institute of Technology. “Social Power in Interactions (SPIN): Computational Analysis of Manifestations of Power”. February 2015.
- 2014 4. Symanto Research. “Social Power in Interactions (SPIN): Computational Analysis of Manifestations of Power”. December 2014.
- 2013 3. Carnegie Mellon University (CMU) Computational Linguistics + NLP Lunch Seminar Series. “Manifestations of Social Power in Interactions”. November 2013.
2. Columbia NLP Talk Series. Title: “Manifestations of Social Power in Interactions”. November 2013.
1. Columbia Computer Science Emerging Scholars Program (ESP). Topic: “Understanding Language in Social Context”. Columbia University. October 2013.

Patents

- 2014 2. A. John, **V. Prabhakaran**, DD. Seligmann. System and method for analysis of power relationships and interactional dominance in a conversation based on speech patterns. US Patent App. 14/036,868.
- 2013 1. S. Somasundaran, **V. Prabhakaran**, VD. Shet, K. Tymoshenko, M. Dejori. System for generating a medical knowledge base. US Patent 8,639,678.

Posters and Demonstrations

- 2015 5. **V. Prabhakaran**, M. Saltzman, O. Rambow. gSPIN: a Google Chrome extension for power analytics on Gmail threads. Data on Mission Industry Summit. Columbia University’s Data Science Institute, New York, NY. (system demonstration)
- 2014 4. **V. Prabhakaran**, A. Arora, O. Rambow. Power of Confidence: How Poll Scores Impact Topic Dynamics in Political Debates. ACL Workshop on Language Technology and CSS. Baltimore, MD. (poster)
3. **V. Prabhakaran**, O. Rambow. Detecting Social Power from Interactions. Google PhD Summit, New York, NY. (poster)
- 2012 2. **V. Prabhakaran**, O. Rambow, M. Diab. Detecting Social Power from Interactions. CAOSS 2012: Workshop on Computational and Online Social Science. New York, NY. (poster)
- 2010 1. **V. Prabhakaran**. Automatic Committed Belief Tagging. NESCAI 2010: The Fourth North East Student Colloquium on Artificial Intelligence, University of Massachusetts Amherst, Amherst, MA.

Teaching

COURSES

Spring 2012 COMS W3101-4 Programming Languages: Perl. Columbia University.

GUEST LECTURES

Spring 2020 CS21SI: AI for Social Good. Stanford University.

Winter 2020 CS224n: Natural Language Processing with Deep Learning. Stanford University. (Prof. C. Manning)

Summer 2017 SOC 384 New Models and Methods in the Social Sciences. Stanford University. (Prof. D. Grusky)

Winter 2017 CS 124/LING 180: From Languages to Information. Stanford University. (Prof. D. Jurafsky)

Spring 2015 COMS W6998 Computational Models of Social Meaning. Columbia University. (Prof. S. Muresan)

Spring 2014 COMS W6998 Computational Models of Social Meaning. Columbia University. (Prof. S. Muresan)

Spring 2013 COMS W4771 Machine Learning. Columbia University (Dr. E. Vovsha).

TEACHING ASSISTANT

Spring 2011 COMS E6998: Machine Learning for Natural Language Processing (Prof. M. Collins)

STUDENT MENTORING

2015-2016 Jennifer Lu (MS, Stanford University), Angela Gong (MS, Stanford University).

2014-2015 Prem Ganeshkumar (MS, Columbia University), Michael Saltzman (BS, Columbia University).

Fall 2014 Rhea Goel (MS, Columbia University), Yanxi Pan (MS, Columbia University)

2013-2014 Ashima Arora (MS, Columbia University), Emily Reid (MS, Columbia University)

Fall 2012 Adinoyi Wisdom Omuya (MS, Columbia University)

Academic Activities

2012-2013 Vice President, iQ – the LGBT association at the Engineering School of Columbia University, NY.

2002-2003 General Secretary, IEEE Student Chapter, College of Engineering, Chengannur, India.