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# Vijay Keswani

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- 2019 Ph.D. candidate, Statistics and Data Science, Yale University, U.S.
- 2017-2019 Computer Science, EPFL, Lausanne, Switzerland.
- 2015-2016 Master in Technology, Computer Science and Engineering, IIT Kanpur, India.
- 2011-2016 Bachelor in Technology, Computer Science and Engineering, IIT Kanpur, India.

# Experience

#### **Publications**

- KDD 2021 Auditing for Diversity using Representative Examples, Vijay Keswani, L. Elisa Celis.
- AIES 2021 **Towards Unbiased and Accurate Deferral to Multiple Experts**, Vijay Keswani, Matthew Lease, Krishnaram Kenthapadi.
- ICML 2021 Fair Classification with Noisy Protected Attributes: A Framework with Provable Guarantees, L. Elisa Celis, Lingxiao Huang, Vijay Keswani, Nisheeth K. Vishnoi.
- KDD 2021 Auditing for Diversity using Representative Examples, Vijay Keswani, L. Elisa Celis.
- The Web Dialect Diversity in Text Summarization on Twitter, Vijay Keswani, L. Elisa Celis. Conf. 2021
- CSCW 2020 Implicit Diversity in Image Summarization, L. Elisa Celis, Vijay Keswani.
- ICML 2020 Data preprocessing to mitigate bias: A maximum entropy based approach, L. Elisa Celis, Vijay Keswani, Nisheeth K. Vishnoi.
- FAT\* 2019 Classification with Fairness Constraints: A Meta-Algorithm with Provable Guarantees, L. Elisa Celis, Lingxiao Huang, Vijay Keswani and Nisheeth K. Vishnoi.
- ICML 2018 Fair and Diverse DPP-based Data Summarization, L. Elisa Celis, Vijay Keswani, Damian Straszak, Amit Deshpande, Tarun Kathuria, Nisheeth K. Vishnoi.
- IJCAI-ECAI Balanced News Using Constrained Bandit-based Personalization, Sayash Kapoor, 2018 Vijay Keswani, Nisheeth K. Vishnoi, L. Elisa Celis.

#### Internships

- Summer, Validation of a Compiler for Critical Embedded Software, w/ Francesco Zappa
  - 2014 Nardelli and Mark Pouzet, INRIA, Paris-Rocquencourtand ENS, Paris.

    Worked on the verification of a data synchronous language, called *Lustre*, by building a symbolic validation framework in OCaml. The verification framework generated the symbolic representation for Lustre programs and the resulting C programs, which were then compared using Z3 SMT solvers to authenticate their equivalence.
  - 2013 **Study of Statistical Learning Algorithms**, *w/ Ambedkar Dukkipatti*, CSA Department, Indian Institute of Science, Bangalore.
    - Applied information theoretic concepts suggested by Kamal Nigam and Andrew McCallum, to get a better model for document classification.

## Industry Experience

#### 2016-2017 Product Engineer, Sprinklr, Gurgaon, India.

Sprinklr aimed to provide a single platform for social media management to enterprises. As part of the Advertisements team, we worked to ensure that our platform is always compatible with the current APIs of all relevant social networks, such as Facebook, Snapchat, etc. We also provided several novel analysis tools to the users to judge the performance of their ads and to maximize their returns from these ads.

#### Teaching Experience

- 2021 **Data Science Ethics**, *Teaching Assistant*, Yale University.
- 2020 —, Yale University, EPFL.
- 2018 Theory of Computation, Teaching Assistant, EPFL.
- 2016 Algorithms and Data Structures, Instructor, ACA Summer School, IITKanpur.
- 2016 Online Learning and Optimization, Teaching Assistant, IIT Kanpur.
- 2015 Theory of Computation, Teaching Assistant, IIT Kanpur.
- 2015 Data Structures and Algorithms, Teaching Assistant, IIT Kanpur.
- 2014 Data Structures and Algorithms, Teaching Assistant, IIT Kanpur.

### Skills

Softwares: MATLAB, Excel/Office, STWAVE (modelling) PTC Creo (Limited), Python (Limited)

Equipment/Hardware Skills

Wave Tank: Hydraulic Wavemaker, Load cell, Wave-guage operation

Flow Map: Flow Tank, Dye pumps (visualization), Class IV Laser operation Acoustics: Oscilloscope, Function Generator, Humminbird 1158c Transducer