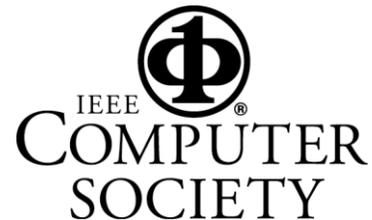


PRINCETON ACM / IEEE-CS CHAPTERS  
MARCH 2020 JOINT MEETING



## Data for Good: Data Science at Columbia

Every field has data. We use data to discover new knowledge, to interpret the world, to make decisions, and even to predict the future. Today, there is convergence of big data, cloud computing, and new machine learning algorithms which has caused explosive interest in data science. This convergence has enabled the automation of some tasks that better human performance. On one hand, these capabilities can help us drive our cars, treat disease, and keep us safe. But they might risk leading to biased, inappropriate, or unintended action. The design of data science solutions requires both excellence in the fundamentals of the field and expertise to develop applications which meet human challenges without creating even greater risk.

The Data Science Institute at Columbia University promotes “Data for Good”: using data to address societal challenges and bringing humanistic perspectives as—not after—new science and technology is invented. Started in 2012, the Institute is now a university-level institute representing over 300 affiliated faculty from 17 schools, colleges and institutes across campus. Data science literally touches every corner of the university. This talk will present the mission of the Institute and highlights of our educational and research activities.

**Jeannette M. Wing** is Avanesians Director of the Data Science Institute and Professor of Computer Science at Columbia University. From 2013 to 2017, she was a Corporate Vice President of Microsoft Research. She is Adjunct Professor of Computer Science at Carnegie Mellon where she twice served as the Head of the Computer Science Department and had been on the faculty since 1985. From 2007-2010 she was the Assistant Director of the Computer and Information Science and Engineering Directorate at the National Science Foundation. She received her S.B., S.M., and Ph.D. degrees in Computer Science, all from the Massachusetts Institute of Technology.

Professor Wing’s general research interests are in the areas of trustworthy computing, specification and verification, concurrent and distributed systems, programming languages, and software engineering. Her current interests are in the foundations of security and privacy, with a new focus on trustworthy AI. She has served on the editorial board of twelve journals, including the Journal of the ACM and Communications of the ACM. She is a Fellow of the American Academy of Arts and Sciences, American Association for the Advancement of Science, ACM, and IEEE.

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| Date:         | Thursday, March 12, 2020, 8:00 pm.<br>(Refreshments and networking at 7:30 pm.)  |
| Place:        | Small Auditorium, Room CS 105<br>Computer Science Building, Princeton University |
| Information:  | Dennis Mancl (908) 285-1066  |
| On-line info: | <a href="http://PrincetonACM.acm.org">http://PrincetonACM.acm.org</a>            |

All Princeton ACM / IEEE-CS meetings are open to the public. Students and their parents are welcome. There is no admission charge, and refreshments are served.

A pre-meeting dinner is held at 6:00 p.m. at Applebee’s (3330 US 1, Lawrenceville, near Quakerbridge Mall). Please send email to [princetonacm@gmail.com](mailto:princetonacm@gmail.com) in advance if you plan to attend the dinner.

