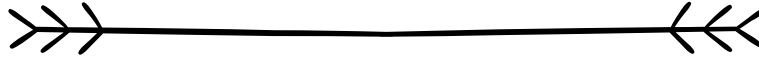


W i D S
B l a c k s b u r g



MONDAY, FEBRUARY 11
3:00-8:30 PM

SCHEDULE



EVENT REGISTRATION

3:00-3:30 PM

LOBBY

WELCOME

3:30-3:40 PM

ASSEMBLY HALL

KEYNOTE SPEAKER: DR. MILINDA LAKKAM

3:40-4:05 PM

ASSEMBLY HALL

CAREER PANEL

4:05-5:00 PM

ASSEMBLY HALL

BREAK

5:00-5:20 PM

GRAND HALL

KEYNOTE SPEAKER: DR. SALLY MORTON

5:20-5:45 PM

ASSEMBLY HALL

DINNER

5:45-7:00 PM

MUSEUM

INTRO TUTORIAL

7:00-8:15 PM

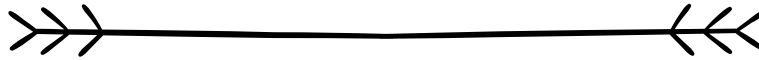
ASSEMBLY HALL

ADVANCED TUTORIAL

7:00-8:15 PM

2ND FLOOR BOARD ROOM

KEYNOTE SPEAKERS



DR. SALLY MORTON

DEAN, COLLEGE OF SCIENCE

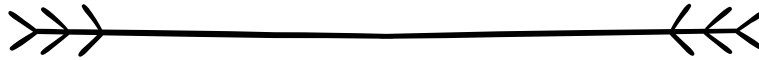
SALLY C. MORTON IS DEAN OF THE COLLEGE OF SCIENCE AND PROFESSOR OF STATISTICS AT VIRGINIA TECH. HER METHODOLOGICAL WORK FOCUSES ON EVIDENCE SYNTHESIS, PARTICULARLY META-ANALYSIS, AND PATIENT-CENTERED COMPARATIVE EFFECTIVENESS RESEARCH. PREVIOUSLY, SALLY WAS CHAIR OF THE BIostatISTICS DEPARTMENT AT THE UNIVERSITY OF PITTSBURGH, VICE PRESIDENT FOR STATISTICS AND EPIDEMIOLOGY AT RTI INTERNATIONAL, AND HEAD OF THE RAND CORPORATION STATISTICS GROUP. SHE SERVED AS THE 2009 PRESIDENT OF THE AMERICAN STATISTICAL ASSOCIATION (ASA) AND RECEIVED A PHD IN STATISTICS FROM STANFORD UNIVERSITY.



KEYNOTE ABSTRACT

USING RACIAL BIAS IN DEATH PENALTY SENTENCING AS A MOTIVATING EXAMPLE, I WILL DISCUSS DEFINITIONS OF BIAS FROM STATISTICAL AND PERSONAL PERSPECTIVES, AND IMPLICATIONS FOR A SCIENTIST. MY TALK WILL ALSO INCLUDE SOME LESSONS LEARNED DURING 30 YEARS AS AN APPLIED STATISTICIAN WORKING ON HEALTH POLICY TOPICS, AND THEIR POTENTIAL RELEVANCE IN THE CAREER OF A MODERN DATA SCIENTIST. QUESTIONS AND COMMENTS WILL BE WELCOMED THROUGHOUT THE PRESENTATION.

KEYNOTE SPEAKERS



DR. MILINDA LAKKAM

SR. DATA SCIENTIST, LINKEDIN

MILINDA LAKKAM IS A SENIOR SOFTWARE ENGINEER IN THE ANTI-ABUSE AI TEAM AT LINKEDIN WHERE SHE HAS BEEN WORKING SINCE 2016. AT LINKEDIN MILINDA FOCUSES ON DETECTING AND PREVENTING THE USE OF AUTOMATED TOOLS THAT VIOLATE LINKEDIN'S TERMS OF SERVICE. PRIOR TO WORKING AT LINKEDIN MILINDA RECEIVED HER PH.D. FROM STANFORD UNIVERSITY IN COMPUTATIONAL AND MATHEMATICAL ENGINEERING, AND HER B.S. FROM I.I.T. MADRAS IN ELECTRICAL ENGINEERING.



KEYNOTE ABSTRACT

THE USE OF AUTOMATION TO STEAL LINKEDIN MEMBER DATA AND SEND SPAM INVITATIONS/MESSAGES VIOLATES OUR TERMS OF SERVICE AND THE PRIVACY EXPECTATIONS OF OUR MEMBERS. IN THIS TALK WE OUTLINE THE PROCESS AND TOOLS WE USE TO TACKLE THIS PROBLEM — FEATURE ENGINEERING, GENERATION OF SEED LABELS, OUTLIER DETECTION METHODS, AND EXTERNAL FEEDBACK TO IMPROVE OUR LABELS.

GUESTS



DR. JENNIFER VAN MULLEKOM

VT DEPARTMENT OF STATISTICS
DATA VISUALIZATION TUTORIAL

JENNIFER VAN MULLEKOM IS THE DIRECTOR OF THE STATISTICAL APPLICATIONS AND INNOVATIONS GROUP (SAIG) AND AN ASSOCIATE PROFESSOR OF PRACTICE IN VIRGINIA TECH'S STATISTICS DEPARTMENT. SHE EARNED HER BS IN MATHEMATICS AND MATHEMATICS EDUCATION AT CONCORD COLLEGE, THEN HER MS AND PHD IN STATISTICS AT VIRGINIA TECH. BEFORE JOINING THE FACULTY AT VIRGINIA TECH, SHE WORKED IN A VARIETY OF STATISTICAL ROLES IN ACADEMICS AND INDUSTRY, INCLUDING POSITIONS AT LUBRIZOL, CAPITOL ONE, AND DUPONT.



TUTORIAL ABSTRACT

A GOOD DATA VISUALIZATION HELPS SCIENTISTS OR BUSINESSES MORE EASILY UNDERSTAND THEIR DATA, MAKE INFORMED DECISIONS, AND DEVELOP FUTURE STRATEGIES. THIS TUTORIAL WILL EXPOSE ATTENDEES TO USEFUL GUIDING PRINCIPLES FOR CLEAR AND EFFECTIVE DATA VISUALIZATION, AND WILL DEMONSTRATE TOOLS FOR MAKING THESE VISUALS. PARTICIPANTS ARE EXPECTED TO HAVE SOME BASIC EXPOSURE TO PROGRAMMING, BUT ASSUMES NO SPECIALIZED VISUALIZATION BACKGROUND.

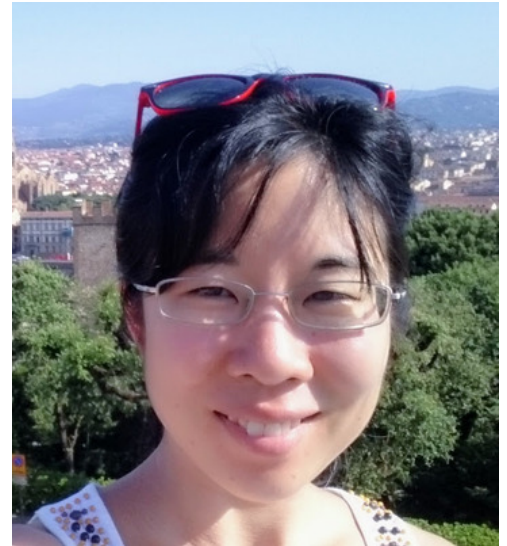
GUESTS



CHERYL DANNER

EXPEDITION TECHNOLOGY
FOCAL-LOSS-BASED DEEP LEARNING FOR OBJECT
DETECTION TUTORIAL

CHERYL GRADUATED WITH A BS IN ENGINEERING FROM FRANKLIN W. OLIN COLLEGE OF ENGINEERING AND STARTED WORKING AS A SYSTEMS ENGINEER FOR RAYTHEON IN BOSTON, MA. AFTER GOING BACK TO SCHOOL AND EARNING AN MS IN COMPUTATIONAL AND MATHEMATICAL ENGINEERING FROM STANFORD UNIVERSITY, SHE MOVED TO NORTHERN VIRGINIA AND JOINED THE TECHNICAL STAFF AT EXPEDITION TECHNOLOGY, INC. IN 2017.



TUTORIAL ABSTRACT

DEEP LEARNING HAS REVOLUTIONIZED IMAGE PROCESSING, BUT AT THIS POINT, IT CAN BE USED FOR SO MUCH MORE THAN CLASSIFYING PICTURES OF DOGS. THIS TUTORIAL WILL INTRODUCE A FEW APPLICATIONS IN COMPUTER VISION AND SIGNAL PROCESSING WHERE DEEP LEARNING IS RAPIDLY ADVANCING THE STATE OF THE ART. WE WILL DISCUSS TECHNIQUES FOR BUILDING BETTER CUSTOM DEEP LEARNING SYSTEMS WITH AN EMPHASIS ON FOCAL LOSS. TO RUN THE INTERACTIVE FOCAL LOSS EXAMPLE, BRING A LAPTOP THAT CAN RUN TENSORFLOW AND SCIKIT-LEARN IN A JUPYTER NOTEBOOK.

GUESTS



CHRISTINA EIGINGER

NIELSEN

CHRISTINA IS A SENIOR DATA SCIENTIST AT NIELSEN AND A FELLOW HOKIE, HAVING GRADUATED FROM VIRGINIA TECH'S STATISTICS DEPARTMENT. HER WORK HAS TAKEN HER AROUND THE GLOBE SUPPORTING VARIOUS TEAMS ACROSS NIELSEN'S DATA SCIENCE ORGANIZATION. HER EXPERIENCE RANGES FROM MACHINE LEARNING AND DATA MODELING TO STATISTICAL SAMPLING AND SURVEY METHODS, BUT HER PASSION LIES IN BRINGING THESE CONCEPTS TO THE LARGER BUSINESS AND COMMUNICATING THEM IN A WAY THAT ANYONE CAN UNDERSTAND.



WE WOULD LIKE TO THANK NIELSEN FOR SPONSORING THIS EVENT AND SENDING THE FOLLOWING REPRESENTATIVES TO ATTEND THIS EVENT!

KYRA VILA

NIELSEN

ELSA PLAZA

NIELSEN



DINNER TOPICS



FAIRNESS IN MACHINE LEARNING

SIRUI YAO, VT COMPUTER SCIENCE

DATA SCIENCE FOR SOCIAL SCIENCE

XU LIN, ECONOMICS

TOOLS FOR REPRODUCIBLE RESEARCH

LEAH JOHNSON, VT STAT/CMDA

DATA INTEGRITY AND PRIVACY

GRETCHEN MATTHEWS, VT MATH

LANDING YOUR FIRST INTERNSHIP

JULIANNE CHUNG, VT MATH/CMDA

DATA ETHICS

IDRIS ADJERID, VT BUSINESS INFORMATION
TECHNOLOGY

CHOOSING YOUR MODELS AND TOOLS

BERT HUANG, VT COMPUTER SCIENCE

THE DATA SCIENCE JOB MARKET

ALI HABIBNIA, VT ECON/CMDA

FOR MORE INFORMATION ABOUT THE GLOBAL WOMEN IN DATA SCIENCE ORGANIZATION, THE DATATHON, AND PODCAST, GO TO [HTTPS://WWW.WIDSCONFERENCE.ORG/](https://www.widconference.org/)

WE WOULD LIKE TO THANK THE FOLLOWING ORGANIZATIONS:

