GRADUATION CEREMONY

20



ELECTRICAL & COMPUTER ENGINEERING

CHAIR'S MESSAGE

Dear Class of 2020,

Today is the day you've worked toward so hard. You have become engineers! I know I speak for the entire University of Washington Department of Electrical & Computer Engineering (UW ECE) when I say I am proud of you and all that you have accomplished.

These are trying times, as I am sure you are well aware. Your community, nation and world needs people such as yourself to be leaders, engineering solutions to the many challenges we collectively face.

As you take the next step in your career, whether it is into industry or academia, I know you are more than ready to stepup to meet those challenges. Personal satisfaction and accomplishments will surely continue to follow you if you face these obstacles undaunted, pursuing your work with the same passion and innovative mindset you applied to your courses.

This next step also means that you join an elite membership – UW ECE alums. Your colleagues in this cohort include distinguished engineers such as Booga Gilbertson, our graduation keynote speaker today.

You have the opportunity to continue to stay connected to UW ECE after graduation. Our department is committed to supporting our alums through networking events, speaking engagements and opportunities to hear about our latest research developments. Whether it be virtual or in-person, we hope you'll keep us updated on your career. We love hearing about your success. Follow us on social media and attend the next ECE alumni event and keep connected to the UW ECE community.

Congratulations!



Eric Klavins, Professor and Chair



OPENING REMARKS

Eric Klavins, Professor and Chair

GRADUATION SPEAKER

Ms. Booga Gilbertson

WARM WISHES

Faculty & Staff

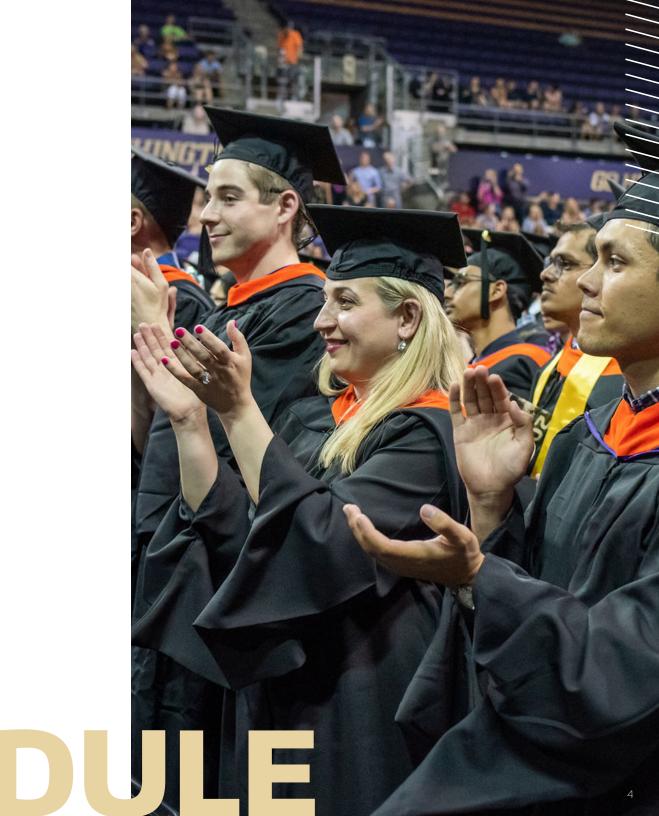
VIRTUAL PROCESSION

THE

Ph.D. EE Graduates

MSEE Graduates

BSEE Graduates





KEYNOTE SPEAKER

A longtime supporter of the ECE department, Gilbertson served on the ECE Advisory Board from 2012-2015 and on the Electric Energy Industry Consortium (EEIC) from 1995-2005, and has also been a regular speaker to ECE students about her career in classes such as the Leadership Seminar Series and Introduction to Professional Issues. Gilbertson is grateful for the strong educational foundation she received at UW ECE, which has opened many doors for her throughout her illustrious career.

As senior vice president and chief operations officer for Puget Sound Energy, Booga Gilbertson is responsible for electric and gas operations, including emergency response, maintenance and construction, grid modernization, electric and gas system operations and dispatch, system planning, project management and engineering. A passionate advocate for safety, she is responsible for safety operations and culture across the company. Since joining PSE, Booga has held a broad range of engineering, operations and management positions in planning, asset management, gas and electric design engineering, performance measurement, budgeting, project management, construction and maintenance, 24-hour control center operations, labor relations, technology and emergency response management.

In addition to her responsibilities at PSE and her volunteer roles at UW, Booga also serves as chair of the board of directors of the Western Energy Institute and on the Washington State University Electrical Engineering and Computer Science Executive Council. Additionally, she is the past chair of the Edison Electric Institute's National Response Executive Committee.

Her work leading teams through complex, high stakes problem solving is what built her reputation as a highly effective and successful leader in the power industry. We look forward to hearing how lessons from her career can help our students stay resilient during these challenging times.

"Frequency Stability in Low-Inertia Power Sustems"

"Equitable Network Modeling and Facilitation of Diverse Modes of Built Environment Pedestrian Navigation"

"Understanding Interaction: Unraveling the Musteries of the Mind Using Virtual Realitu"

"Unsupervised Representation Learning with Interactive Language"

> "Computational Imaging Using Multifunctional Wavefront-coded Dielectric Metasurfaces"

"A Multi-Time over Threshold Data Acquisition System for Silicon Photomultipliers based Positron Emission Tomography Imaging"

> "Applications of Statistical and Machine Learning to Civil Infrastructure"

"Trajectory Tracking Wide-Area Control for Power Systems"

ATINUKE ABOLAJI ADEMOLA-IDOWU

Advised by Baosen Zhang

NICHOLAS J. BOLTEN

Advised by Eric Klavins & Anat Caspi

DAVID E. CABALLERO

Advised by Eric Rombokas & Blake Hannaford

HAO CHENG Advised by Mari Ostendorf

SHANE A. COLBURN Advised by Arka Majumdar

SAMRAT DEY Advised by Jacques Rudell

CHASE P. DOWLING Advised by Baosen Zhang

RYAN THOMAS ELLIOTT

Advised by Daniel Kirschen & Payman Arabshahi

"Implementing Binary Neural Networks"

"Towards Multi-Person 3D Pose Estimation in Natural Videos"

> "On Numerical Methods for Efficient Deep Neural Networks"

"Deep Generative Models for Natural Language Generation"

"Self-supervised Learning and Domain Adaptation for Visual Analysis"

"Robust Vision-Aided Self-Localization of Mobile Robots"

"Electromechanical Brillouin Scattering and Reinvention of Integrated Acousto-optical Devices on CMOS-compatible Platforms"

"Extracting Information from Clinical Text Using Multi-task and Active Learning"

"Generalizable Methodology for Measurement and Analysis of Nutritional Intake'

"Computational Problems for RNA-Seq Data Analusis"

"Unsupervised Learning : Model-guided

JOSHUA W. FROMM

Advised by Shwetak Patel

RENSHU GU Advised by Jeng-Neng Hwang

CHONG LI Advised by Chuan-Jin Richard Shi

DIANOI LI Advised by Ming-Ting Sun

KEVIN LIN Advised by Ming-Ting Sun

KYLE MARTIN LINDGREN Advised by Blake Hannaford

OIYU LIU Advised by Mo Li

KEVIN LYBARGER Advised by Mari Ostendorf

SEPEHR MAKHSOUS

Advised by Alexander Mamishev

SHUNFU MAO Advised by Sreeram Kannan

SUDIPTO MUKHERJEE

Advised by Sreeram Kannan



"Control through Contact for Legged Locomotion"

"Data-driven Control of Powered Prosthetic Limbs using Inter-joint Coordination and Computer Vision"

> "Molecular Computers Built From DNA Components"

"Understanding User-perception of Sleep to Inform Sensing and Provide Actionable Feedback"

> "Physics-based Security Analysis of Controller Area Network Protocols"

"Learning and Control for Energy Systems"

"Smart Step: Wearable Mobility Assistance using Machine Learning and Haptic Feedback"

"Time-domain Analysis of Multiple Scattering Effects on the Radar Cross Section (RCS) of Objects in a Random Medium"

> "Vision Based Surgical Tool Tracking and Force Estimation with Robot Kinematics Prior"

ANDREW PACE

Advised by Samuel Burden

VIJETH RAI

Advised by Eric Rombokas & Howard Chizeck

SUNDIPTA D. RAO

Advised by Georg Seelig

RUTH VINISHA RAVICHANDRAN

Advised by Shwetak Patel & Julie Kientz

SANG UK SAGONG

Advised by Radhakrishnan Poovendran & Linda Bushnell

YUANYUAN SHI

Advised by Baosen Zhang

ASTRINI SIE

Advised by Eric Rombokas & Blake Hannaford

CHENXIN SU Advised by Yasuo Kuga

YUN HSUAN SU Advised by Blake Hannaford "Digital Microfluidic Systems for Selfcleaning Surfaces and Lab-on-Chip Devices Using Anisotropic Ratchet Conveyors"

"Measuring 3D-Length from an Image Using Robust and Accurate Curve Estimation"

"Deep Learning with Abstention: Algorithms for Robust Training and Predictive Uncertainty"

"Neural Models for Integrating Prosody in Spoken Language Understanding"

"Integrating Bidirectional Brain-Computer Interfaces in Low-Voltage CMOS"

"Developing Massively Parallel Reporter Assay for Studying Gene Regulatory Elements"

"Theoretical Simulation of the Conductive Filament in the Resistive Switching Memory"

"Leveraging Naturally Occurring Structure in Language Processing"

"Building Modular, Human-Interpretable AI Systems with Behavior Trees"

> "Integrated Phase-Change Silicon Photonic Platform for Nonvolatile Programmable Photonics"

"Metal Halide Perovskite Light-emitting Materials and Devices"

DI SUN

Advised by Karl Böhringer

MAOLONG TANG

Advised by Ming-Ting Sun

SUNIL THULASIDASAN

Advised by Jeffrey Bilmes

TRANG TRAN Advised by Mari Ostendorf

JOHN PATRICK UEHLIN Advised by Jacques Rudell

BAN WANG Advised by Georg Seelig

XU XU Advised by Manjeri Anantram

VICKY ZAYATS Advised by Mari Ostendorf

DIANMU ZHANG Advised by Blake Hannaford

JIAJIU ZHENG Advised by Arka Majumdar

CHEN ZOU

Advised by Lih Lin

MSEE GRADUATES W/ THESES:

JACKIE BAUM Advised by Daniel Kirschen

NIHARIKA MITTAL

Advised by Scott Hauck

RICHA RAO Advised by Scott Hauck

MSEE GRADUATES:

NEERAJA ABHYANKAR

MARELDI PARAS AHUMADA

TREVOR I. BERGSTROM

NICHOLAS BOLTEN

ERMIAS ZEGEYE BIRU

VICTOR CANNESTRO

YI-CHENG CHEN

YIDONG CHEN

"Power Sustem Risk Analusis Under Increasing Levels of Variable Energy Resource Integration"

"Development of an FPGA Emulator for the RD53B Chip"

"Implementing Long Short-Term Memory Neural Networks in High-Level Sunthesis Taraeting FPGA"

DREW WILLIAM

PAVEL DERLYUK

NIKOLAYEVICH

DUKHNOVSKIY

KATHLEEN M. CRISS

DYLAN MATHEW DAY

JEETENDRA K. DUWADI

MUSTAPHA ENNAIMY

CLARK

TIMOFEY

JERROLD OBERT BIGFORD ERICKSON

WESTON STEVEN FIALA

ELLORY FRENEAU

XIANGYU GAO

XINBEI GONG

RENSHU GU

ELLIOTT GUDNI GUNNARSSON

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GRANT HADLICH

AKRAM HAMDY

DANIEL HANISH

IASON ALLEN HARRIGAN

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AKRAM KASSAY

ZACHARY RYAN KISSLER

IAMES LEROY KOEHLER

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JESSE LU

KUAN HSUN LU

XIAOYU LU

YEYUN LU

DANIEL CATALIN **LUNCASU-ROLEA**

LONG HOANG LY

GIORGIO MINAI

HIRALBEN PRAFULKUMAR MISTRY

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MICHAEL WILLIAM O'DELL

MARK WILLIAM ODENDAHL

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PINZHU QIAN

RAHUL RAMANARAYANAN

ASHIKA ROHIT

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JACOB STEIN

ANNELISA M. STURGEON

CONNOR PATRICK SULLIVAN

YI-TING SUN

CHARUMATHY SUNDARAM

FORUM VINOD

SUTHAR DANIEL TABAS TRISTAN TAN LINGSHU TANG TYLER TERHUNE EARNIE TSAI BANDHAV VELURI YUE WANG SITING WANG RAN WEI JOHN WOLFE ANDREW JOEL WOLFRAM **GARY WU LIANG XIANG MINGYI YANG YUNYI YANG** SHIH-HAO YEH **KRISTY YEUNG XAVIER YUAN REX ZHANG TIANYI ZHANG FATIMA ZOLFAGHAR**



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RICHARD SCOTT BURBERRY ERIKA C. BURK **JUNHONG CAI BERNARD CALIMLIM YIBO CAO ZIHAN CAO IONATHAN CASAMAYOR LOK CHAN CHENGHAO CHEN HUIHAO CHEN JOHN CHEN VILLY CHEN GAVIN CHENG IENNY CHO IEONGHYUN CHOI MARCUS JEREMY HON WAI CHU CHIVA CHUN ZHONGYI DAI** IAN DAVIDSON

ZACHARY POHAIPUNI **DELA CRUZ FAN DENG JAKE T. DETWILER JONATHAN ANDIEN DO KEITH THOMAS** DUCHARME **DONAVAN MARTIN** ERICKSON **MINGCUN FAN TIANOI FAN TONY FAUBERT KAIDEN JAMES FIELD CHARLIE FISHER BRENDAN MICHAEL FLYNN** MATTHEW SCOTT FODE **DANIELLE FUNG BEREKET GEREMEW** GAGURO MOHAMED M. A. GNEDI **IRINA GOLUB ZOE KATHRYN PINDAR** GREGORY **ASHLEY PAIGE GREY**

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IBRAHIM

ADIL ISLAM

JOSE M. JAIME

ADITYA JAIN

TAO JIN

ALYSSA ROSE

JOHNSEN-KROGH

KYLE JOHNSON

JEFF JOSEPHSEN

DAVID RENARD JOSLIN

EMIL NICHOLAS KANADI

ALEXANDER JOSEPH KARDOKUS

MAXIM AMON KARRENBACH

GURTARANJIT KAUR

MICHAEL THOMAS KENNY

NIMA JOSHUA KHERADPOUR

DEAN YAR KHORMAEI

EUNTAE KI

DONGHYUK KIM

SEOKJOONG KIM HUI IIE KOH EMILY FANIIA KONG RUSSELL ENG KOOK BONAN KOU TYLER C. LA DAMOND LAI **DYLAN VAN LAM JESSICA YUAN-ANN LAN CARLY STRASSER** LANGER **ZUHAIR LATEEF ZECH LATIMER SUN HONG LAY ALEXANDER CHILE KHANG LEE MICHAEL LEE** ELTON SHEN LI **SHANGRONG LI VINGHAO LI YULAI LI** ZHIYAO LI **EDDY ZEXIN LIANG RYAN LIANG JING JIE LIM**

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TYLER PETRIE LAM PHAM **AMEYA PHANSALKAR** WICHWONG PREMVUTI **JIARONG QIAN LISA HUA QING** SANDEEP IAYANTHI RAMANATHAN **MAHESH VENKAT** REDDY **BLAKE DONALD ROSE** NATALIE MARIE **SALAZAR REI SATO RIKUO DAVID SATO IAMES TEODORO A. SCHULZ KIRILL SEMENOV YEII SEO ERIN L. SHEA BO-BIN SHIH KENNETH SHIM** CASEY SCOTT SILCOX MANDEEP SINGH

IOSEPH DELMAR ST. GEORGE **KRISTI LYN STEFANOVICZ YITONG SUN TYVON CANUTO TABADERO ISAAC MASACHIKA** TAGUCHI **MATHEW TANG ANGIE CRYSTAL THAI LILLIAN HOPE THIEL ALEXANDER SOPIRUM** THIEM **AUSTIN THOMASON** NAHUM TILAHUN PHUC HOANG TO DYLAN KENNETH TOMBERLIN **FILIP TOMCZAK ALLISON MARIE TORCHIA KAREN L. TORRES CUONG M. TRAN DONAVAN TRAN TYAN TRINH**

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FANGSHENG XU SHU XU ZIOIAO XU IIN YAN ILAN YANOVSKY IINA EMILY YOO HAOMIN YU DAVID YU MICHAEL YUEN **ANTHONY ANDREW** ZAMARRIPA **DIBO ZHANG LEI ZHANG YOU ZHANG BERT ZHAO STEVE ZHAO XINYU ZHAO**

JINYUE ZHU



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