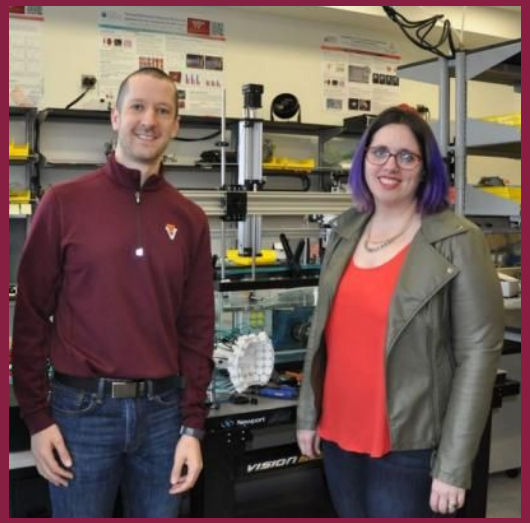
VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

FACULTY EXPERTISE BOOKLET

2023

Graça Almeida-Porada, M.D., Ph.D.

Title: Professor of Regenerative

Department Wake Forest Institute for Regenerative Medicine

Campus Downtown

Phone Number 336-713-1630

Email galmeida@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

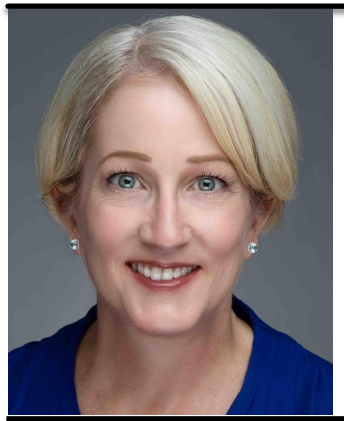
Expert In

- Stem Cell Biology
- Stem Cell Niches
- Stem Cell Therapies
- Gene Therapy
- Transplant Immunology
- Fetal Transplant
- Hematopoiesis
- Inherited Bleeding and other Genetic Disorders

Links

- https://school.wakehealth.edu/Faculty/A/Graca-Almeida-Porada
- https://www.linkedin.com/in/graca-almeida-porada-6b60b429/

Evelyn (Lynn) Y. Anthony, MD, FACR



Professor, Radiology & Pediatrics
Senior Associate Dean for Faculty Affairs

Department of Radiology
Wake Forest Campus
(336) 716-1066 (Radiology)
(336) 716-4454 (Dean's Office)

eanthony@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Diagnostic Imaging
- Cancer Imaging
- Neonatal and Pediatric Imaging
- Fetal MRI
- Global Health and Radiology
- Faculty Vitality
- Faculty Career Development & Mentoring

Links

- https://school.wakehealth.edu/Faculty/A/Lynn-Anthony
- https://www.wakehealth.edu/Providers/A/Lynn-Anthony

Chris Arena, PhD

Collegiate Associate Professor

Biomedical Engineering and Mechanics (BEAM)

Virginia Tech

540-232-8427

carena@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Medical Devices
- Translational Cancer
- Bioinstrumentation
- Bioelectrics
- Imaging
- Biodesign process
- Engineering pedagogy

Links

- https://www.linkedin.com/in/christopher-arena-1686022b/

Sara Arena, PhD

Biomedical Engineering Undergraduate Chair & Collegiate Associate Professor

Biomedical Engineering and Mechanics

Virginia Tech

540-232-8441

sarena@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Slips, Trips, and Falls
- Analysis of Human Movement
- Computational Modeling
- Engineering Education
- Problem-Based Learning
- Cooperative Learning

Links

- https://beam.vt.edu/people/faculty/arena-s.html

Anthony Atala, MD

G. Link Professor and Chair, Department of Urology
Director of the WF Institute for Regenerative Medicine

Wake Forest Institute for Regenerative Medicine

Wake Forest University

(336) 713-7293

aatala@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

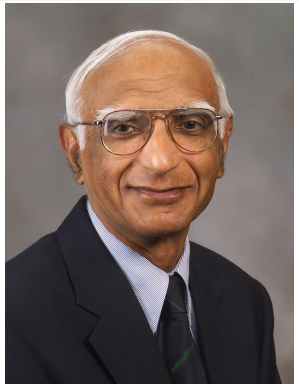
Expert In

- Urology
- Tissue Engineering
- Translational Cancer Research
- Cardiovascular Physiology and Hypertension
- Regenerative Medicine
- Cancer Therapeutics Endocrinology
- Neuro- and Behavioral Pharmacology
- Organ Systems
- Biomechanics and Biomedical Imaging
- Genetics and Gene Regulation
- Cell Therapy
- Biomaterials
- Body on a Chip

Links

https://school.wakehealth.edu/Faculty/A/Anthony-Atala
https://www.wakehealth.edu/Providers/A/Anthony-Atala

Romesh C. Batra, PhD



University Distinguished Professor and Clifton C. Garvin Professor

Biomedical Engineering & Mechanics Department

Virginia Tech Campus

540-231-6051

rbatra@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expertise

- Material Failure at High Strain Rates
- Soft Tissue Mechanics
- Penetration & Impact Problems
- Functionally Gradient Materials/Structures
- Molecular Mechanics/Dynamics Simulations of Nanostructures
- Smart structures/Piezoelectric materials

Links

https://scholar.google.com/citations?user=QpAXXoEAAAAJ&hl=en

Home page: https://www.sites.beam.vt.edu/batra/

Lectures on Continuum Mechanics:
https://www.youtube.com/watch?v=HkNuNE1_de4

ASME Honorary Membership Award Ceremony:
https://www.youtube.com/watch?v=iVX8kHLzruA&list=PLq-Gm0yRYwTg9gY-xhVpZ5LoctJVi-m2S

List of former Ph.D. students:
http://genealogy.math.ndsu.nodak.edu/id.php?id=105522

Bahareh Behkam, PhD

Associate Professor, John J. Jones III Faculty Fellow

Mechanical Engineering Department

Virginia Tech Campus

540-231-7491

behkam@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Bio-Hybrid Microrobotics Systems
- Drug Delivery for Cancer Therapy
- Medical Device-Associated Infection
- Host-Pathogen Interactions
- Biomechanics and Mechanobiology
- Nanobioengineering
- Biotransport
- Biomaterials
- Bioadhesion
- Computational Modeling
- Synthetic Biology

Links

- https://behkam.me.vt.edu/
- https://me.vt.edu/people/faculty/behkam-bahareh.html

@BBEHKAM

bahareh-behkam-1380784

J. Daniel Bourland, PhD

Professor

Department of Radiation Oncology

Wake Forest University

(336) 713-6503

bourland@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Medical Physics
- Radiation Oncology
- Radiation Countermeasures
- Gamma Radiosurgery
- Small Field Radiation Dosimetry
- Radiation-Induced Brain Injury
- Oncology and Biomedical Imaging
- Translational Cancer Research

- President-Elect, American Association of Physicists in Medicine

Links

https://school.wakehealth.edu/Faculty/B/John-Daniel-Bourland

Philip J. Brown, Ph.D.

Assistant Professor, Biomedical Engineering Department
Director, Translational Engineering and Design Core Lab

Wake Forest Campus, Biotech Place Bldg

336.716.0945

phibrown@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

- Biomechanics
- Mechanical Design
- Medical Devices
- Material Testing
- Surgical Simulation
- Robotic Surgery
- Additive Manufacturing

- www.linkedin.com/in/philip-brown-71a24553
- https://www.wakeforestinnovations.com/experts/philip-brown-phd/
- https://school.wakehealth.edu/faculty/b/philip-jayson-brown

John C. Chappell, PhD

Associate Professor

Biomedical Engineering and Mechanics & Fralin Biomedical Research Inst.

Roanoke

540-526-2219

JChappell@vtc.vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Vascular Biology
- Developmental Biology
- Computational Modeling
- High-resolution Imaging Modalities
- Conditional Genetic Animal Models
- In Vitro / Ex Vivo Tissue Engineered Models

Links

- FBRI Faculty Profile
- BEAM Faculty Profile
- FBRI Lab Profile
- PubMed Publications

Raja Chatterjee, MD, MS

Professor of Medicine and Pediatrics

Pulmonary, Critical Care, Allergy & Immunologic Diseases

Wake Forest Campus

(336) 716-7765

achatter@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Internal Medicine
- Sleep Medicine
- Critical Care Medicine
- Pulmonary Disease
- Clinical Informatics
- Data Collection
- Data Interpretation
- Human Clinical Research
- Medical Devices
- Military Medicine (currently serving as a Captain –O6 in the US Navy)

Links

- https://school.wakehealth.edu/Faculty/C/Raja-Chatterjee
- https://www.wakehealth.edu/Providers/C/Raja-Chatterjee
- https://facultysenate.wfu.edu/senators/
- @WakePCCM

Caitlyn Collins, PhD

Assistant Professor

Biomedical Engineering and Mechanics, Health Sciences

Blacksburg, VA

540.231.2210

cjcollins@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Bone Biomechanics and Mechanobiology
- Biomedical Imaging (microCT, HR-pQCT, CT, DXA)
- Computational Modeling
- Multiscale Mechanical Testing
- Osteoporosis and Aging
- Bone Fracture Healing

Links

- https://beam.vt.edu/people/faculty/collins.html
- https://www.bone.ethz.ch/research/clin-mech.html
- Twitter: @osteocollins
- https://www.linkedin.com/in/caitlyn-collins

Christina Kehl Cramer, MD

Assistant Professor

Radiation Oncology

Wake Forest Campus

(336) 713-3600

ccramer@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Cancer-related cognitive impairment
- Gamma knife radiosurgery
- Spine radiosurgery and stereotactic body radiotherapy
- Hippocampal-avoidance
- Brain and spine metastases
- Glioblastoma and anaplastic astrocytomas
- Low-grade astrocytomas and oligodendrogliomas
- Brain and spine meningiomas
- Pituitary adenomas
- Ependymomas
- Craniopharyngiomas
- Palliative radiotherapy
- Trigeminal neuralgia
- Essential tremor

Links

- https://school.wakehealth.edu/Faculty/C/Christina-Kehl-Cramer
- https://www.wakehealth.edu/Providers/C/Christina-Kehl-Cramer
- @ChristyCramerMD
- https://www.linkedin.com/in/christina-cramer-a75b6622/

Tracy L. Criswell, PhD

Assistant Professor

Wake Forest Institute for Regenerative Medicine

Wake Forest Campus

(336) 716-1615

tcriswel@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Skeletal Muscle Physiology, Injury and Regeneration
- Aging, Menopause
- Sex and Gender Differences
- Development of Pituitary Organoids
- Ovary Tissue Engineering
- Tissue Engineering and Regeneration
- Graduate Education, Teaching, Mentoring

Links

- https://school.wakehealth.edu/Faculty/C/Tracy-L-Criswell

Kerry A. Danelson, PhD

Associate Professor with Tenure & Director of Orthopaedic Research

Orthopaedics

Wake Forest Campus

(336) 716-1738

kdanelso@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Injury and Orthopedic Biomechanics
- Military Injury Biomechanics (Warrior Injury Assessment Manikin)
- Biomechanical Testing
- Finite Element Analysis
- Orthopedic Clinical Outcomes

Links

- https://school.wakehealth.edu/Faculty/D/Kerry-A-Danelson

Rafael V. Davalos, PhD

L. Preston Wade Professor, ASME Fellow, AIMBE Fellow

Biomedical Engineering and Sciences, Center for Engineered Health

Blacksburg

540-231-1979

Davalos@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

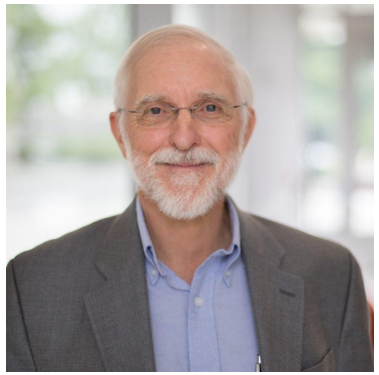
Expert In

- Biotransport
- Medical Devices
- Translational Cancer
- Microfluidics
- Computational Modeling
- Electroporation
- Dielectrophoresis

Links

- https://www.sbes.vt.edu/davalos/
- https://scholar.google.com/citations?user=D0lYzZIAAAAJ&hl=en

David A. Dillard, PhD, PE



Adhesive and Sealant Science Professor

Biomedical Engineering and Mechanics

Virginia Polytechnic Institute and State University

540-231-4714

dillard@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Experimental mechanics
- Fracture mechanics
- Stress analysis
- Adhesion science
- Adhesive and sealant applications
- Coatings
- Durability and environmental effects
- Viscoelasticity
- Hydrogel and elastomer behavior

Links

- https://beam.vt.edu/people/faculty/dillard.html

Thomas Diller, PhD

Professor

Mechanical Engineering Department

Blacksburg

540-231-7198, 540-750-5846

tdiller@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Medical Devices
- Bio-Thermal Modeling and Measurements
- Blood Perfusion

Links

- https://me.vt.edu/people/faculty/diller-thomas.html
- http://www.me.vt.edu/heat-transfer-mobile-lab-3/

Raffaella De Vita, PhD

Professor and Associate Department Head

Biomedical Engineering and Mechanics

Virginia Tech

540-231-5905

devita@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Soft tissue mechanics
- Reproductive biomechanics
- Experimental mechanics
- Continuum mechanics
- Computational mechanics
- Biomaterials
- Bioengineering for women's health

Links

- https://www.vtstretchlab.com
- https://beam.vt.edu/people/faculty/devita.html

Zachary Doerzaph, PhD, CHFP

Executive Director,
Virginia Tech Transportation Institute

Associated Professor,
Biomedical Engineering and Mechanics Department

Blacksburg

540-231-1046

zdoerzaph@vtti.vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Automotive safety and crash causation
- Advanced Driver Assistance Systems
- Automated driving systems
- Driver behavior monitoring systems
- Connected vehicles
- Prototype development
- Computational modeling
- Naturalistic, field, epidemiological, and controlled study designs
- Vehicle and driver modeling
- Vehicle sensor systems and data acquisition
- Biomechanics

Links

- www.vtti.vt.edu
- beam.vt.edu/people/faculty/doerzaph.html

Kevin Edgar, PhD

Professor, and Associate Dean of the Graduate School

Sustainable Biomaterials Department, and Macromolecules Innovation Inst.

Virginia Tech

540.961.0141

kjedgar@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Polysaccharide chemistry
- Drug delivery
- Biodegradation
- Hydrogels
- Cellulose chemistry
- Alginate chemistry
- Dextran chemistry
- Solubility and bioavailability enhancement

Links

- https://sbio.vt.edu/our-people/faculty-directory/edgar.html
- https://graduateschool.vt.edu/about/contactus/directory/kevin-edgar.html

Wu Feng, PhD

Professor, NSF SHREC Co-Director, SEEC Director
Computer Science, Electrical & Computer Engg., Biomedical Engg. & Sciences

Blacksburg Campus

540-951-1006

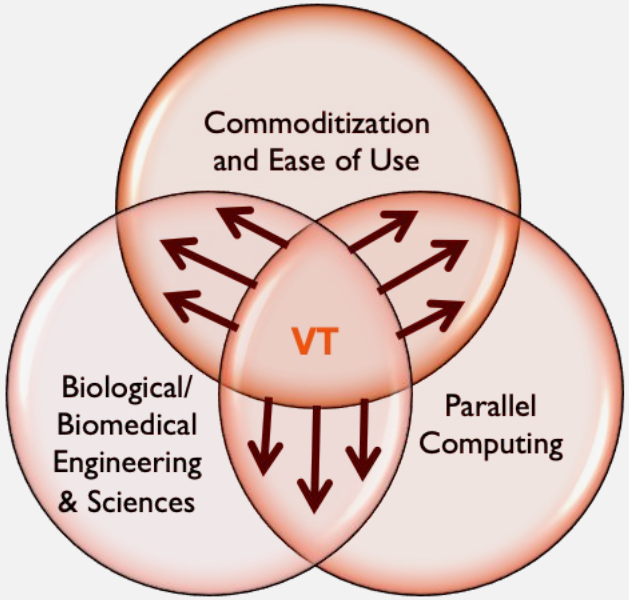
wfeng@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

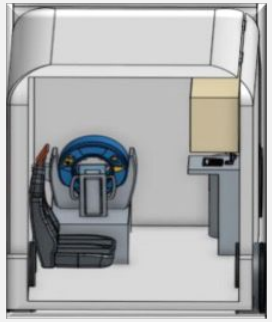
Expert In

- Computational Science & Engineering
  - Biomedical Imaging
  - Carcinogenesis
  - DNA Sequence Analysis
- Computational Modeling
- Telehealth
- Parallel & Distributed Computing
- Machine Learning / Deep Learning



Links

- http://synergy.cs.vt.edu/
- http://seec.cs.vt.edu/
- http://www.nsf-shrec.org/
- https://www.facebook.com/vtsynergy/



F. Scott Gayzik, PhD

Associate Professor, Course Director SBES Clinical Rotation

Biomedical Engineering Department, Center for Injury Biomechanics

Wake Forest Campus

(336) 716-6643

sgayzik@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Computational Human Body Modeling
- Biomedical Imaging
- Morphological Studies
- Injury/Trauma/Risk Curve Development
- Database Analysis
- Automotive Safety
- Military Safety/Solider Protection
- Global Health

Links

- https://school.wakehealth.edu/Faculty/G/F-Scott-Gayzik
- www.linkedin.com/in/scott-gayzik-7126a560

@ScottGayzik; @WakeBME

William Gmeiner, PhD, MBA

Professor

Cancer Biology, Comprehensive Cancer Center, Physiology & Pharmacology, Center for Precision Medicine

Wake Forest Campus

336-716-6216

bgmeiner@Wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- **Fluoropyrimidine chemotherapy**
- **Nucleic acid therapeutics**
- **Overcoming barriers to drug delivery**
- **Translational Cancer**
- **Biomaterials**
- **Computational Modeling**

Links

- http://www.wakehealth.edu/Faculty/Gmeiner-William-Henry.htm
- https://www.linkedin.com/in/william-gmeiner-5465426/
- @bgmeiner1

Aaron Goldstein, Ph.D

Associate Professor

Department of Chemical Engineering

540-231-3674

goldst@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomaterials Synthesis and Characterization
- Polymer Processing
- Interfacial Phenomena
- Bone Tissue Engineering
- Bioreactors
- Computational Modeling of Transport Phenomena

Links

- Lab Website: https://stem.che.vt.edu/research.html
- Recent Publications: https://stem.che.vt.edu/faculty-publications.html

Robert Gourdie, PhD, FAHA

Professor and Center Director
Biomedical Engineering and Mechanics and Fralin Biomedical Research Institute at Virginia Tech Carilion

Roanoke, VA

843 860 8971

gourdier@vtc.vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Drug delivery
- Peptide therapeutics
- Cardiovascular disease
- Wound healing
- Radiation injury
- Nanoparticles
- Exosomes
- Translational Biomedicine
- Biomedical Entrepreneuralism

Links

- https://beam.vt.edu/people/faculty/gourdie.html
- https://scholar.google.com/citations?user=lyhLuaQAAAAJ
- https://www.linkedin.com/in/robert-gourdie-207a30a/
- https://fbri.vtc.vt.edu/people-directory/primary-faculty/gourdie.html

Netta Gurari, Ph.D.

Assistant Professor

Biomedical Engineering and Mechanics

540-231-3073

gurari@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Somatosensation
- Sensorimotor Control
- Stroke
- Robotics
- Biomechanics
- Human Subjects Experimental Research
- Neuroengineering

Links

- BEAM Faculty Profile
- Robotics and Sensorimotor Lab Website

@NettaGurari

Metin Nafi Gurcan, PhD

Director, Center for Biomedical Informatics,
Professor, Internal Medicine, Pathology, Biomedical Engineering

Center for Biomedical Informatics

Wake Forest Campus

(336) 716-5422

mgurcan@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Image Interpretation, Computer-Assisted
- Image Processing, Computer-Assisted
- Pattern Recognition, Automated
- Algorithms
- Biomedical Informatics
- Artificial Intelligence

Links

- https://school.wakehealth.edu/Faculty/G/Metin-Nafi-Gurcan
- https://school.wakehealth.edu/research/labs/clinical-image-analysis-lab/

@metingurcan

https://www.linkedin.com/in/metin-gurcan-abb1025/

Adam R. Hall, PhD

Assistant Professor

Department of Biomedical Engineering

Wake Forest Campus

(336) 716-5384

arhall@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Nanomedicine and Nanobioengineering
- Nano- and Microfabrication
- Molecular Biophysics
- Epigenetic Analysis
- Glycomic Analysis
- Assay Development
- Microfluidics
- Biomaterials
- Tissue Engineering
- Translational Cancer Research

Links

- http://www.thehalllab.org
- https://school.wakehealth.edu/Faculty/H/Adam-Roger-Hall

@the_adam_hall

adam-r-hall-b787106

Craig A. Hamilton, PhD

Associate Professor

Biomedical Engineering Department, J. Paul Sticht Center for Healthy Aging

Wake Forest Campus

(336) 716-2819

crhamilt@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

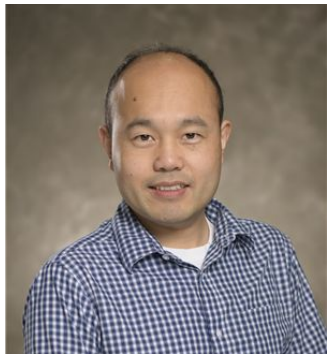
Expert In

- Biomedical MRI Imaging
- Image Analysis
- Signal and Image Processing

Links

- https://school.wakehealth.edu/Faculty/H/Craig-A-Hamilton

Aiguo Han, PhD



Assistant Professor

Biomedical Engineering and Mechanics (BEAM)

Virginia Tech

217-244-1167

han51@illinois.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomedical imaging
- Ultrasound imaging
- Machine learning in biomedical imaging and diagnostics
- Transcranial ultrasound brain imaging and neuromodulation
- Quantitative ultrasound
- Simulation and modeling of ultrasonic wave propagation
- Clinical applications of biomedical ultrasound, e.g.,
  - Noninvasive liver fat quantification
  - Noninvasive cancer diagnosis (e.g., hepatocellular carcinoma)
  - Tumor characterization
  - Preterm birth risk assessment

Links

- https://aiguohan.github.io/
- https://beam.vt.edu/people/faculty/han.html

Erin Henslee, MS, PhD

Assistant Professor

Department of Engineering

Wake Forest Campus

(336) 702-1963

hensleea@wfu.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Electrophysiologic Characterization of Cells
- Cellular Disease
- Cellular Drug Response
- Circadian Biology
- Cell Patterning and 3D Cell Culture
- Sustainable Practice of Lab-Based Research
- E-Sport (video gaming) Science
- Engineering Education
- Public Engagement and Science Communication

Links

- https://engineering.wfu.edu/people/faculty/erin-henslee/

@e_henslee; @WakeEngineering

www.linkedin.com/in/erin-henslee/

Adam Katz, MD

Title: Professor

Department of Plastic Surgery

Campus: WFBH

Phone Number: 336.716.4416

Email: akatz@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Translational Cell Therapies
- Adipose-derived Cell Biology
- Medical Devices
- Wound healing
- Vascular Remodeling

Links

- https://www.wakehealth.edu/Providers/K/Adam-J-Katz?utm_source=local&utm_campaign=google%20my%20business&utm_medium=organic

Jeongchul Kim, PhD

Assistant Professor

Diagnostic Radiology

Wake Forest

336-716-0931

jeokim@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Neuroimaging
- Alzheimer's Disease
- Brain Development
- Traumatic Brain Injury
- Hemodynamics
- Medical Devices

Links

- https://school.wakehealth.edu/research/labs/radiology-informatics-and-image-processing-laboratory

Andrew R Kemper, MS, PhD

Associate Professor, Center for Injury Biomechanics Laboratory Director

Dept. of Biomedical Engineering and Mechanics, Center for Injury Biomechanics

Virginia Tech Campus

540-231-2465

akemper@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Injury/Trauma
- Injury Mechanisms
- Automotive Safety
- Military Safety
- Thoracic Response and Injury Tolerance
- Material/Structural Properties of Bone and Soft Tissue
- Response of Human Surrogates during Impact/Accelerative Loading
- Effect of Muscle Activation on Occupant Kinetics and Kinematics

Links

- https://beam.vt.edu/people/faculty/kemper.html
- https://beam.vt.edu/research/Center-for-Injury-Biomechanics.html

Oleg Kim, PhD

Assistant Professor

Biomedical Engineering and Mechanics

Virginia Tech Campus

olegkim@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics and Mechanobiology
- Blood clot structure and function
- Biomaterials
- Experimental and Computational Biophysics
- Cancer model systems
- Microscopy
- Dispersed systems

Links

- https://beam.vt.edu/people/faculty/kim1.html

Ken T. Kishida, PhD

Assistant Professor

Physiology and Pharmacology

Wake Forest Campus

(336) 716-0419

kkishida@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Human Neuroscience
- Decision Making
- Computational Neuroscience
- Reinforcement learning
- Dopamine
- Serotonin
- Norepinephrine
- Consciousness
- Computational Psychiatry
- Neuroimaging
- Neuro-methods Development

Links

- https://school.wakehealth.edu/Faculty/K/Ken-T-Kishida
- www.kishidalab.com

- https://www.linkedin.com/in/ken-kishida-8a022542/
- https://twitter.com/kenkishida

- https://www.freethink.com/articles/computational-psychiatry

Arina Korneva, PhD

Assistant Professor

Biomedical Engineering and Mechanics

Virginia Tech

540-231-2044

arina.korneva@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Combining mechanics, biology, and genetics to answer cutting-edge questions in human diseases
- Biomechanics
- Solid mechanics
- Nerve mechanics
- Ocular mechanics
- Cardiovascular solid mechanics
- Soft tissue mechanics
- Multiscale mechanical testing

Links

https://beam.vt.edu/people/faculty/korneva.html

Google Scholar

Paul J. Laurienti, MD, PhD

Professor

Department of Radiology

Wake Forest School of Medicine

336-716-3261

plaurien@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Neuroscience
- Network Science
- Brain Imaging
- Complex systems
- Brain networks and alcohol use
- Neural contributions to mobility disability
- Effects of pesticides on the brain

Links

- http://lcbn.wakehealth.edu/

Sang Jin Lee, PhD

Professor

Wake Forest Institute for Regenerative Medicine

Wake Forest Campus

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sjlee@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomaterials
- Regenerative Medicine
- 3D Biofabrication / Bioprinting
- In Vitro Microphysiological Models / Organs-on-a-Chip
- Polymer / Hydrogel Synthesis
- In Situ Tissue Regeneration
- Cardiovascular Tissue Engineering
- Musculoskeletal Tissue Engineering
- Biointegration
- Stem Cells

Links

- https://school.wakehealth.edu/Faculty/L/Sang-Jin-Lee
- https://profiles.wakehealth.edu/display/Person/sjlee

@bio2002

sang-jin-lee-a3282935

Yong W. Lee, PhD

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Department of Biomedical Engineering and Mechanics

Virginia Tech Campus

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomaterials
- Nanobioengineering
- Neuroengineering
- Translational Cancer Research

Links

- https://beam.vt.edu/people/faculty/lee.html
- https://beam.vt.edu/people/staff.html
- https://www.linkedin.com/in/yong-lee-4a44b9132/
- https://www.facebook.com/yongwoo.lee.5895/

Da Ma, MS, PhD

Assistant Professor,

Center for Biomedical Informatics, Alzheimer's Disease Research Center

Wake Forest Campus

336-713-6172

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomedical Imaging (MRI, CT, PET, SPECT, etc.)
- Neuroimaging / Ophthalmic Imaging (OCT, etc.)
- Computational neuroanatomy
- Neurodegenerative diseases
- Aging, Alzheimer's Disease
- Artificial Intelligence / Deep Learning / Machine Learning
- Computational biomarker
- Anatomical Modeling for Medical Image Data
- Imaging genomics
- Multi-modal information fusion
- Longitudinal disease progression modelling

Links

- **Websites**:
https://da-ma-dm.github.io
https://school.wakehealth.edu/faculty/m/da-ma
- **Google Scholar**: 5oigaVwAAAAJ
- **LinkedIn**: dama01
- **Twitter**: da_ma_dm
- **Email**: dma@wakehealth.edu

Michael L. Madigan, PhD

Professor

Industrial and Systems Engineering

Blacksburg Campus

540-231-3543

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Dynamics and Neuromuscular Control of Movement
- Slips, Trips, and Falls
- Factors Affecting Human Balance
- Balance Training
- Effects of Aging on Physical Capability and Mobility
- Occupational Biomechanics and Ergonomics
- Prosthetics
- Low Back Pain
- Work Physiology and Fatigue
- Expert Witness Consulting

Links

- https://www.madbiogroup.org/
- https://oeb.ise.vt.edu/

Joshua Maxwell, PhD

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Richard H. Dean Building

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Cardiac Physiology
- Cardiac Regenerative Medicine
- Cardiac Biomaterials for Therapeutic Delivery
- Cell-based Therapies
- Stem Cell Secretomes
- Multi-omic Approaches to Stem Cell Biology
- Induced Pluripotent Stem Cell-Derived Cardiac Myocytes
- Disease Modeling
- Animal Models

Links

- https://school.wakehealth.edu/Faculty/M/Joshua-T-Maxwell
- https://www.linkedin.com/in/josh-maxwell-7840002b

Andre A Muelenaer, Jr, MD, MS

Professor of Practice, Department of Biomedical Engineering and Mechanics, VT
Professor, Department of Pediatrics, VTCSOM
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VIRGINIA TECH | WAKE FOREST UNIVERSITY
SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Clinical Medicine, with focus on pediatric respiratory diseases
- Telemedicine
- Medical Devices
- Global Health
- Medical Ethics/Institutional Review Board
- Team Science/Transdisciplinary Research

Links

- TEAM Malawi
  https://team.cired.vt.edu

Michael T. Munley, PhD, DABR, FAAPM

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Radiation Oncology

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

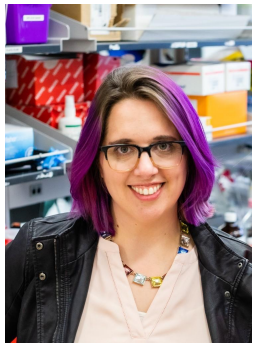
Expert In

- Radiation Oncology
- Radiation Dosimetry
- Radiosurgery
- Gamma Knife
- Image-Guided Radiation Therapy
- Radiation Injury: Lung, Musculoskeletal
- Radiation Response Modeling
- Medical Imaging

Links

- https://school.wakehealth.edu/Faculty/M/Michael-Thomas-Munley
- https://www.wakehealth.edu/Providers/M/Michael-Thomas-Munley

Jenny Munson, PhD



Associate Professor

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(540) 526-2352

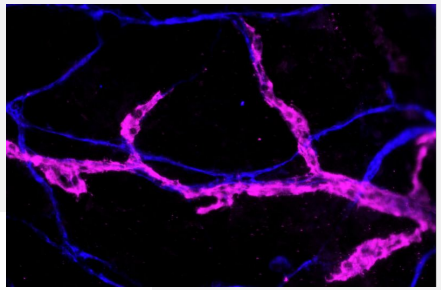
munsonj@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

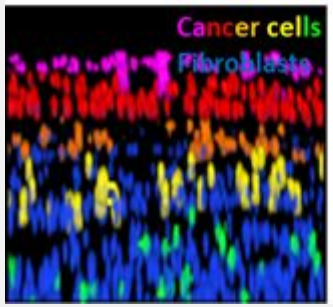
SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

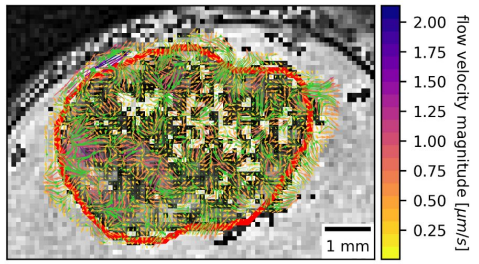
- Tumor microenvironment
- Interstitial fluid flow
- Brain cancer
- Breast cancer
- Lymphatics
- Tissue engineering
- Alzheimer's Disease
- Drug delivery
- In vivo imaging



Harris et al. (2022) *Frontiers Oncology*



Logsdon et al. (2017) CMBE



Kingsmore, et al. (2018) *APL Bioengineering*

Links

- Munson Lab Website: www.munsonlab.com
- Faculty Page: https://fbri.vtc.vt.edu/people-directory/primary-faculty/munson.html

@MunsonOEL

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Regenerative Medicine
- Stem Cells and Cell Therapies
- Tissue Engineering
- Wound Healing
- Biomaterials
- Lung Diseases
- 3D Bioprinting for Organ Biofabrication
- Organ-on-a-chip
- Clinical Trials

Links

- https://school.wakehealth.edu/Faculty/M/Sean-Vincent-Murphy
- www.linkedin.com/in/sean-murphy-3741bb49
- https://seanmurphylab.wordpress.com/

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Motion Analysis
- Upper Extremity Mechanics
- Sports Biomechanics
- Orthopaedic Biomechanics
- Baseball Pitching
- Gait Analysis

Links

- http://www.wakeforestpitchinglab.com/
- https://school.wakehealth.edu/Faculty/N/Kristen-Nicholson

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Occupational Biomechanics & Ergonomics
- Applied Biomechanics
- Work Physiology
- Balance & Postural Control
- Electromyography & Muscle Fatigue
- Slip, Trip, & Fall Prevention
- Ergonomics Design and Interventions
- Occupational Exoskeletons

Links

- https://ise.vt.edu/nussbaum
- https://oeb.ise.vt.edu
- http://www.researchgate.net/profile/Maury_Nussbaum/
- http://scholar.google.com/citations?user=XMRtFS8AAAAJ

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Director, Comprehensive Cancer Center

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Transforming Growth Factor Beta Receptors
- Colorectal Neoplasms
- Breast cancer
- Hepatocellular carcinoma
- Biological effects of radiofrequency electromagnetic fields

Links

- https://school.wakehealth.edu/Faculty/P/Boris-Claude-Pasche
- https://school.wakehealth.edu/Research/Labs/Pasche-Lab

Miguel A. Perez, PhD, CPE

Associate Professor

Biomedical Engineering and Mechanics Department

Virginia Tech Campus

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Automotive Safety
- Emergency Vehicles
- Driving and Medical Conditions
- Biomechanics
- Human Factors
- Ergonomics
- Dynamics and control
- Data Analytics
- Research Design
- Computational Modeling

Links

- https://beam.vt.edu/people/faculty/perez.html
- https://www.vtti.vt.edu/staffdir/bio.php?&pn=112350
- https://www.vtti.vt.edu/hfts/index.html

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0000-0003-0437-5603

Christopher D. Porada, PhD

Professor

Wake Forest Institute for Regenerative Medicine

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- In Vivo Gene Transfer
- Stem Cell-Based Gene Therapy
- Hematopoiesis
- Hemophilia A
- Prenatal Therapies
- Microgravity
- Risks of Space Flight and Space Radiation
- Radiation-Induced Carcinogenesis
- Molecular Medicine and Translational Science
- Integrative Physiology and Pharmacology

Links

- https://school.wakehealth.edu/Faculty/P/Christopher-Porada

Robin Queen, PhD, FACSM, FIOR

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Department of Biomedical Engineering and Mechanics
Department of Orthopaedic Surgery, Virginia Tech Carilion School of Medicine

Virginia Tech
(540) 231 - 3134
rmqueen@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY
SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Human Subjects Experimental Research
- Clinical Trials
- Orthopaedic / Musculoskeletal Health
- Clinical and Functional Outcomes
- Movement and Loading Symmetry
- Remote Data Collection Methods
- Rehabilitation Engineering
- Data Health Analytics

Links

- https://beam.vt.edu/people/faculty/queen.html
- https://www.granatalab.beam.vt.edu/
- https://www.research.vt.edu/sirc/contact/robin-queen.html

@GranataLab, @rmqueen_VT

robin-queen-a941074b

Elaheh (Ellie) Rahbar, PhD

Assistant Professor

Department of Biomedical Engineering

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics & Biofluids
- Computational Fluid Modeling
- Hemorrhagic shock
- Resuscitation & Transfusions
- Biomarkers for trauma
- Omega-3 fatty acid metabolism
- Metabolomics and Lipidomics
- Precision Medicine
- Acute lung injury
- Traumatic brain injury
- Translational Trauma Research

Links

- https://school.wakehealth.edu/Faculty/R/Elaheh-Rahbar
- https://rahbarlab.wordpress.com/

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Research Assistant Professor

Biomedical Engineering and Mechanics

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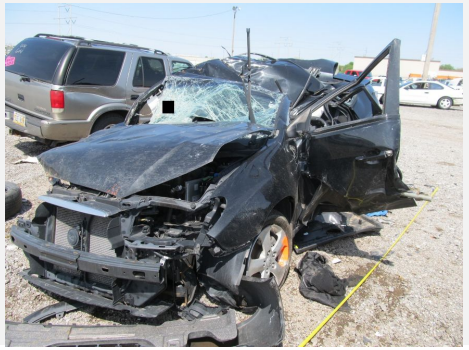
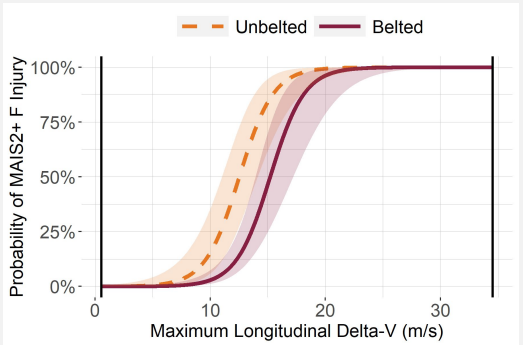
VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Event Data Recorders
- Evaluation of Active Safety Systems
- In-Service Performance Evaluation
- Roadside Safety Design
- Crash Injury Biomechanics
- Occupant Injury Modeling
- Road Departure Crashes
- Rollover Crashes





Links

- www.beam.vt.edu/people/faculty/riexinger
- www.linkedin.com/in/lukeriexinger/
- www.safetyimpact.beam.vt.edu

Monét Roberts, PhD

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Department of Biomedical Engineering and Mechanics

Virginia Tech

Phone Number

monetr@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Glycocalyx/glycocalyx engineering
- Cancer Cell Biology
- Scanning Electron Microscopy
- Translational Cancer Research
- Tissue Engineering
- Tumor Microenvironment
- Meningeal lymphatics
- Extracellular Vesicles

Links

- Website under construction
- @PhunsizeDPhD
- ladeidra-monet-roberts

Steve Rowson, PhD

Associate Professor

Biomedical Engineering and Mechanics

Virginia Tech

540-231-8254

rowson@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Injury Biomechanics
- Concussion
- Protective Design
- Safety Evaluation Systems
- Data Science
- Computer Vision
- Risk Analysis
- Helmets
- Sport Injury Prevention

Links

- SteveRowson.com
- vt.edu/helmet
- Twitter: @strowson

Sean L. Simpson, PhD

Professor

Department of Biostatistics and Data Science, Division of Public Health Sciences

Wake Forest Campus

336-716-8369

slsimpso@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Statistical Methods for Network- and Complexity-Based Neuroimaging
- Repeated Measures Analysis
- Covariance Modeling
- Health/Social Disparities

Links

- https://school.wakehealth.edu/Faculty/S/Sean-L-Simpson
- https://www.phs.wakehealth.edu/public/profile.cfm?staffid=7DF7D34F-A955-4D3D-B70D-FCCD6EC1FAA4
- http://lcbn.wakehealth.edu/

Jake Socha, Ph.D.

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Department of Biomedical Engineering and Mechanics

Virginia Tech

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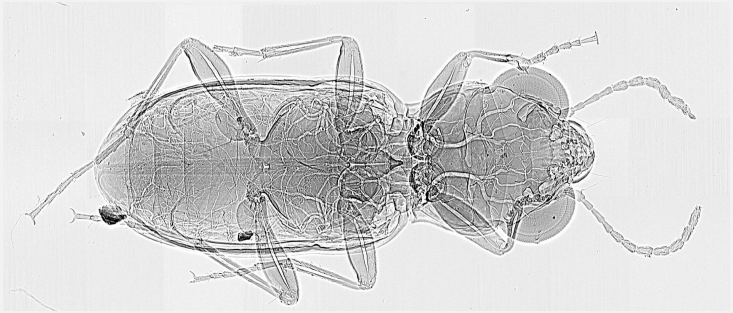
jjsocha@vt.edu

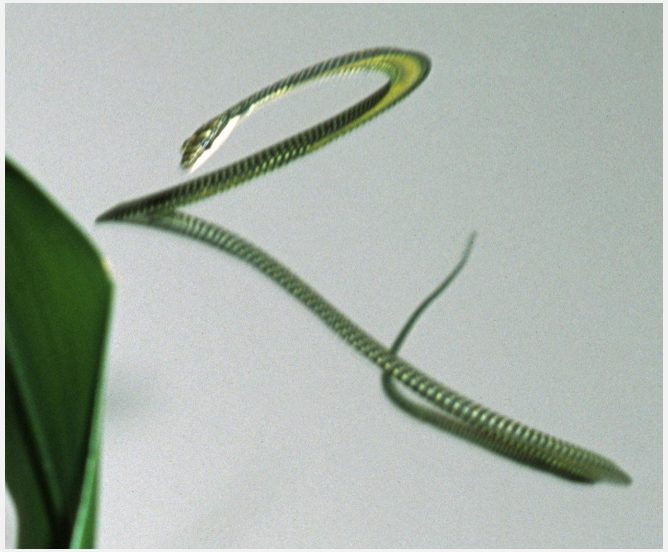
VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Comparative biomechanics
- Bio-inspired engineering
- Synchrotron x-ray imaging
- Computed tomography
- Animal locomotion





Links

- www.thesochalab.org
- Twitter: @SochaLab, @snake_flyer

Shay Soker, PhD

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Wake Forest Campus

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ssoker@wakehealth.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Tissue Engineering
- Biomaterials
- Stem Cells
- Translational Cancer Research
- Cellular Mechanics
- Extracellular Matrix

Links

- https://school.wakehealth.edu/Faculty/S/Shay-Soker

Anne E. Staples, PhD

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540-231-7570

staplesa@vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Fluid Dynamics
- Computational Modeling
- Microfluidics
- 3D Printing
- Finite Element Modeling
- Medical Devices
- Hemodialysis, Drug Delivery, Cardiovascular Flow Modeling
- Machine Learning/AI

Links

- BEAM Faculty Profile
- Fluid Dynamics in Nature Lab Website

@StaplesLabFluid

anne-staples-4180834

Joel D. Stitzel, Ph. D.

Professor, Chair of Biomedical Engineering (WFU), Program Leader (CIB)

Biomedical Engineering, VT-WFU Center for Injury Biomechanics (CIB)

Wake Forest University School of Medicine

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jstitzel@wakehealth.edu, jdstitzel@gmail.com

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Research Interests / Expertise

- Biomechanics
- Computational Modeling / Human Body Modeling
- Sports Safety
- Concussion / Neurotrauma / Traumatic Brain Injury
- Head Impact Measurement Instrumentation
- Field Head Impact Exposure Data Collection in Youth Sports
- Aerospace, Military, and Vehicle Safety
- Crash Injury Research and Engineering Network
- Finite Element Analysis

Links

- CIB @ WFU
- LinkedIn
- NIH NLM Bibliography
- Loop Profile
- Wakehealth Profile (CTSI)
- ResearchGate
- Google Scholar
- WFU School of Medicine Profile

Jeff Stein, PhD

Assistant Professor

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jstein1@vtc.vt.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Behavioral economics
- Decision-making
- Type 2 diabetes
- Obesity
- Substance use disorders
- Tobacco regulatory science
- Clinical trials
- Human subjects experimental research

Links

- FBRI Faculty Profile
- LinkedIn
- PubMed Bibliography
- ResearchGate
- Google Scholar

Danesh Tafti, PhD

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Mechanical Engineering

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Computational fluid dynamics
- Parallel computing
- Numerical methods development
- Turbulent flow and heat transfer
- Large-Eddy Simulations
- Multiphase liquid-gas-solid systems
- Turbomachinery
- Cardio-vascular modeling
- Natural flight aerodynamics
- Ocean energy harvesting

Links

https://hpcfd.me.vt.edu

https://scholar.google.com/citations?user=gtDnS1YAAAAJ&hl=en&oi=ao

https://www.researchgate.net/profile/Danesh-Tafti

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Computational (Bio)Mechanics
- Material Modelling
- Injury/Trauma
- Optimization
- Pattern Recognition

Links

- https://beam.vt.edu/people/faculty/untaroiu-c.html
- https://beam.vt.edu/research/Center-for-Injury-Biomechanics.html
- https://scholar.google.com/citations?user=SRI2PMAAAAAJ&hl=en

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Injury Biomechanics
- Concussion / Traumatic Brain Injury
- Head Acceleration Measurement
- Sports Injury Prevention
- Public Health Research Methods
- Translational Research

Links

- https://school.wakehealth.edu/Faculty/U/Jillian-Urban
- https://profiles.wakehealth.edu/display/Person/jurban

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

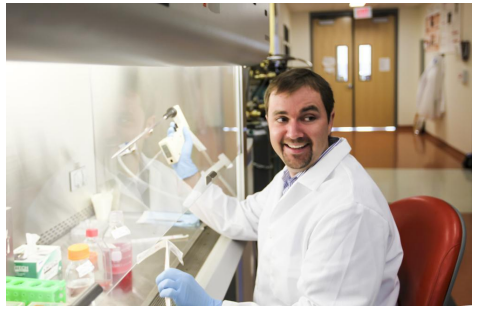
Expert In

- Injury Biomechanics
- Neuroengineering
- Traumatic Brain Injury
- Cell Mechanics
- Biomaterials
- Glial Biology
- Nanobioengineering
- Neurodegeneration

Links

- @pvandevord_VT
- https://www.linkedin.com/in/pamela-vandevord-83948b32/
- https://tntlab.beam.vt.edu

Scott Verbridge, PhD



Associate Professor

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Translational Cancer
- Targeted Therapies
- Tumor Microenvironment
- Tumor Microbiome
- Tumor Evolution
- Tissue Engineering
- Neuroengineering

Links

- www.verbridgelab.org

Pierre Vidi, PhD

Associate Professor

Cancer Biology

Wake Forest Campus

(336) 716 7122

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

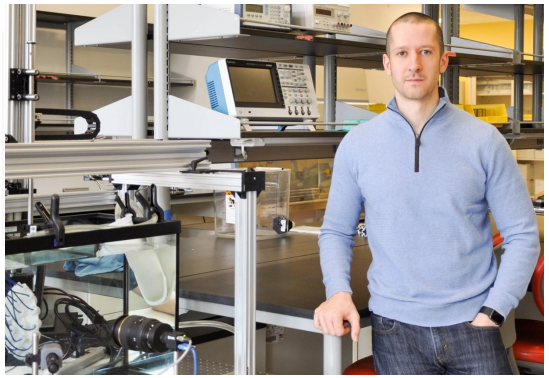
Expert In

- Cell Biology
- Cancer Prevention Models
- Translational Cancer Research
- Imaging
- Computational Image Analyses

Links

- https://school.wakehealth.edu/Research/Labs/Pierre-Alexandre-Vidi-Lab

Eli Vlaisavljevich, MS, PhD



Assistant Professor

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540-231-2136

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Focused Ultrasound
- Medical Devices
- Translational Cancer
- Non-invasive tissue ablation (Histotripsy, HIFU)
- Acoustic Cavitation
- Nanoparticle-mediated histotripsy (NMH)
- Ultrasound-guided tissue regeneration
- Ultrasonic neuromodulation
- Acoustically-active Biomaterials
- Bioengineering for Conservation and Global Health
- Clinical Translation

Links

- https://ultrasound-lab.beam.vt.edu/index.html
- https://ultrasound-lab.beam.vt.edu/Doctor.html
- https://beam.vt.edu/people/faculty/vlaisavljevich.html

Vlaisavljevich Research Laboratory

William Wagner, MS, PhD

Assistant Professor

Plastic and Reconstructive Surgery; Regenerative Medicine

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Wound Repair
- Regenerative Medicine
- Biomaterial Fabrication
- Stem Cell-Biomaterial Interaction
- Cardiovascular Tissue Repair
- Musculoskeletal Tissue Repair
- Nutrition and Effects of Polyphenolics on Disease

Links

- https://scholar.google.com/citations?user=flwWn9oAAAAJ&hl=en
- https://www.researchgate.net/profile/William_Wagner3

Vincent M. Wang, Ph.D.

Associate Professor; Director, Orthopedic Mechanobiology Lab

Department of Biomedical Engineering and Mechanics

Virginia Tech Campus

540-231-1771

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Orthopedic biomechanics
- Soft tissue biomechanics
- Mechanobiology
- Pre-clinical models of tendon healing
- Non-invasive therapeutic models
- Quantitative ultrasound imaging
- Machine learning analysis of ultrasound images

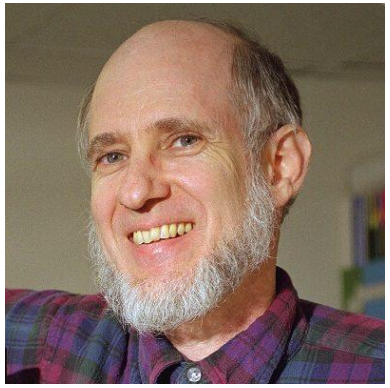
Links

- https://wanglab.beam.vt.edu/

@vwang_VT

vincent-wang-vt

Layne Watson, PhD



Professor

Computer Science, Math & Aerospace and Ocean Engineering

Virginia Tech Campus

540-231-7540

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Numerical Analysis
- Nonlinear Programming
- Mathematical Software
- Image Processing
- Parallel Computation
- Bioinformatics

Links

- https://people.cs.vt.edu/~ltw/
- https://people.cs.vt.edu/~ltw/shortvita.html

Jennifer S. Wayne, Ph.D.

Professor and Department Head; Head SBES

Department of Biomedical Engineering and Mechanics

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

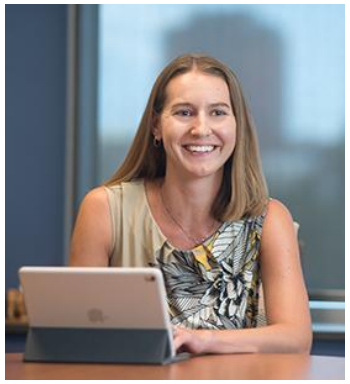
Expert In

- Musculoskeletal Biomechanics
- Joint Biomechanics
- Hard and Soft Tissue Mechanics
- Computational Modeling
- Experimental Mechanics
- Solid Mechanics

Links

- JSWayne with VT BEAM
- VT BEAM
- JSWayne on LinkedIn

Ashley A. Weaver, MS, PhD



Associate Professor, Graduate Recruitment Director, & REU Director

Biomedical Engineering Department, Center for Injury Biomechanics

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Biomedical Imaging (CT, MRI, DXA)
- Computational Modeling (Finite Element Analysis)
- Injury / Trauma
- Orthopedic / Musculoskeletal Health
- Automotive Safety
- Aerospace and Astronaut Injury Prevention
- Aging, Osteoporosis, and Sarcopenia
- Anatomical Modeling for Medical Device Virtual Testing
- Clinical Trials Research

Links

- https://school.wakehealth.edu/Faculty/W/Ashley-Anne-Weaver
- https://www.wakeforestinnovations.com/experts/ashley-weaver-phd/

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Jared A. Weis, PhD

Assistant Professor

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomechanics
- Biomedical Imaging (MRI)
- Biophysics
- Cancer Model Systems (*in vitro* & *in vivo*)
- Computational Modeling
- Microscopy
- Translational Cancer Research

Links

- https://school.wakehealth.edu/Faculty/W/Jared-A-Weis
- https://school.wakehealth.edu/Research/Labs/Weis-Lab
- https://WeisLab.org

@JaredWeis @WeisLab_WFU

Saami K. Yazdani, PhD

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Department of Engineering

Wake Forest University

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yazdanis@wfu.edu

VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Cardiovascular Mechanics
- Medical Devices
- Translational Research
- Drug Delivery
- Pre-clinical Modeling
- Fluid Mechanics
- Atherosclerosis
- Peripheral Arterial Disease
- Coronary Arterial Disease
- Tissue Engineering

Links

- https://www.biofluids.org
- https://engineering.wfu.edu/people/faculty/saami-yazdani/

Dawen Zhao, MD, PhD

Associate Professor

Biomedical Engineering

Wake Forest Campus

336-713-5783

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VIRGINIA TECH | WAKE FOREST UNIVERSITY

SCHOOL OF BIOMEDICAL ENGINEERING AND SCIENCES

Expert In

- Biomedical Imaging (MRI, Optical)
- Image-guided drug delivery
- Imaging Contrast Agents
- Translational Cancer Research
- Nanotechnology
- Immunotherapeutic Nanoparticles

Links

- https://school.wakehealth.edu/Research/Labs/Dawen-Zhao-Lab