



UNIVERSITY
of VIRGINIA

ORTHOPAEDIC SURGERY

**Improve Health Care through
Innovation and Discovery**

**Promote Cutting Edge Clinical and
Translational Research through
Cross-Ground Collaborations**

**Department of Orthopaedic Surgery
Research Retreat, 4/8/2017**





Our Mission

UNIVERSITY
of VIRGINIA

To attain a national and international reputation as a leader in academic orthopaedics in the areas of Patient care, Orthopaedic Education, and Musculoskeletal Research





Chair's Council on Research

UNIVERSITY
of VIRGINIA





Orthopaedic Research Directors

UNIVERSITY
of VIRGINIA



Dr. George Christ

Director for Basic and Translational Research

Abhijit Dighe, PhD

Li Jin, PhD

Xiao Li, PhD

Xinlin Yang, PhD



Dr. Joseph Hart

Director of Clinical Research

Research Coordinator for each division



Dr. Shawn Russell

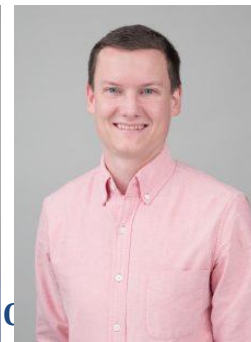
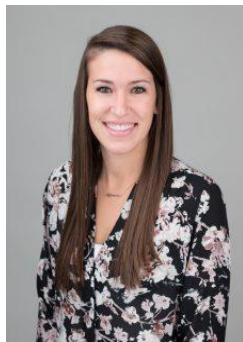
Director of Motion Analysis and Performance Lab





Achievements in year 2016

- Team Building – A+ team!!
- Each Clinical Division: research coordinators
<https://med.virginia.edu/orthopaedic-surgery/research/orthopaedic-clinical-trials/clinical-trials-by-division/#trauma-cr>
- New Hire: Clinician scientist, Josh Li, MD, PhD
- Planned recruitment in 2018





Achievements in year 2016

- 99 Peer-Reviewed Publications
- 65 Textbooks/chapters
- 145 National/international presentations
- There are 25 currently funded clinical trials
- We have 67 total active IRB-HSR protocols
- Clinical research funding is about \$1.9 M.
- Translational research funding about \$3.5 M





What's New in 2017?

- George Christ and Shayn Peirce-Cottler: Co-Sponsored by SEAS and SOM, \$3M dollars to fund the **Center for Advanced Biomanufacturing**
- Cui-Lobo-Dighe:
Inhibition of MSC1 stem cells and T cells to endorse bone healing
NIH R21: Impact score: 23, Percentile: 4
- Cui-Pan-Yang:
A novel inflammation targeting Tc-99m probe for osteoarthritis imaging
NIH R21: Impact score: 20, Percentile: 5
- <https://med.virginia.edu/orthopaedic-surgery/research/orthopaedic-clinical-trials/clinical-trials-by-division/#trauma-cr>





Collaboration, collaboration, collaboration !

- **Collaboration is one hallmark of good research**
Improve funding opportunity through collaborative research
- **Scientist-clinician: team up for government funding**
NIH: increased clinical research to almost 50% of total budget
NSF
PCORI (Patient-Centered Outcomes Research Institute): \$750 Million
CMS (Centers for Medicare & Medicaid Services): \$1 billion
- **Partnership with industry**
- **Grants from foundations**

Thank you !

[J Bone Joint Surg Am.](#) 2015 Apr 1;97(7):e35.

