



## Zackary Vaughn, MD

Clinical Assistant Professor, Orthopaedic Surgery

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### BIO

Dr. Vaughn is a board-certified, fellowship-trained sports medicine surgeon with Stanford Health Care Orthopaedics and Sports Medicine. He is also a clinical assistant professor in the Department of Orthopaedic Surgery at Stanford University School of Medicine.

Dr. Vaughn specializes in treating hip, knee, and shoulder sports injuries. He offers procedures such as anterior cruciate ligament (ACL) surgery and other ligament reconstructions, rotator cuff repair, and hip, knee, and shoulder arthroscopy. Dr. Vaughn is currently head team physician for the Stanford University men's and women's rugby team. Previously, he has been team physician for the Golden State Warriors (National Basketball Association), San Jose Earthquakes (Major League Soccer), and San Francisco 49ers (National Football League).

His research interests include hip joint motion (kinematics) as it relates to the prevention of hip arthritis. He has also studied alternate techniques for ACL revisions, such as using calcium phosphate bone cement. Dr. Vaughn was awarded a research grant from the Orthopaedic Research and Education Foundation (OREF) to study wrist motion in elite golfers.

Dr. Vaughn has published in many peer-reviewed journals, including the American Journal of Sports Medicine, The Knee, and Knee Surgery, Sports Traumatology, Arthroscopy. He has delivered dozens of podium presentations and lectures at Stanford Medicine and for the American Academy of Orthopaedic Surgeons, Northern California chapter of the Western Orthopaedic Association, and others. His presentations have covered a range of topics, including meniscus repair, cartilage restoration, and knee ligament injuries.

Dr. Vaughn is a fellow of the American Academy of Orthopaedic Surgeons. He is also a member of the American Orthopaedic Society for Sports Medicine, California Orthopaedic Association, and Western Orthopaedic Association.

#### CLINICAL FOCUS

- Sports Medicine
- Hip, Knee & Shoulder Arthroscopy
- Rotator Cuff

- Anterior Cruciate Ligament
- Knee Injuries
- Shoulder Pain
- Orthopaedic Sports Medicine

### **ACADEMIC APPOINTMENTS**

- Clinical Assistant Professor, Orthopaedic Surgery

### **ADMINISTRATIVE APPOINTMENTS**

- Head Team Physician, Bay Area Bandits, (2010- present)
- Head Team Physician, Stanford Men's Rugby Team, (2010- present)
- Head Team Physician, Stanford Women's Rugby Team, (2010- present)
- Assistant Team Physician, San Francisco 49ers, (2009-2011)
- Team physician, NBA Golden State Warriors, (2012- present)
- Head Team Physician, MLS San Jose Earthquakes, (2013- present)

### **HONORS AND AWARDS**

- Resident Research Award, Western Orthopaedic Association (2007)
- Graduation with Honors - Distinction in Research, Saint Louis University School of Medicine (2004)
- Graduation with Honors - Cum Laude, University of San Francisco (1999)
- Health Profession Society - Student of the Year Nominee, University of San Francisco (1998)

### **PROFESSIONAL EDUCATION**

- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2012)
- Fellowship: Stanford University Orthopaedics (2010) CA
- Residency: Stanford University Orthopaedics (2009) CA
- Internship: Stanford Hospital and Clinics - Dept of Surgery (2005) CA
- Medical Education: St Louis University School of Medicine (2004) MO

### **LINKS**

- Zack Vaughn, MD Clinical Website: <http://www.ZackVaughnMD.com>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

Hip Arthroscopy in the Treatment of Femoroacetabular Impingement and Labral Tears

Anterior Cruciate Ligament Reconstruction and Revision Techniques

## **Publications**

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### **PUBLICATIONS**

- **In vitro analysis of peri-articular soft tissues passive constraining effect on hip kinematics and joint stability.** *Knee surgery, sports traumatology, arthroscopy : official journal of the ESSKA*  
Safran, M. R., Lopomo, N., Zaffagnini, S., Signorelli, C., Vaughn, Z. D., Lindsey, D. P., Gold, G., Giordano, G., Marcacci, M.  
2013; 21 (7): 1655-1663

- **Restoration of Knee Volume Using Selected Arthroscopic Releases** *AMERICAN JOURNAL OF SPORTS MEDICINE*  
Dragoo, J. L., Miller, M. D., Vaughn, Z. D., Schmidt, J. D., Handley, E.  
2010; 38 (11): 2288-2293
- **Arthroscopic Femoral Osteoplasty/Chielectomy for Cam-type Femoroacetabular Impingement in the Athlete** *SPORTS MEDICINE AND ARTHROSCOPY REVIEW*  
Vaughn, Z. D., Safran, M. R.  
2010; 18 (2): 90-99
- **Biomechanical Evaluation of a 1-Stage Revision Anterior Cruciate Ligament Reconstruction Technique Using a Structural Bone Void Filler for Femoral Fixation** *ARTHROSCOPY-THE JOURNAL OF ARTHROSCOPIC AND RELATED SURGERY*  
Vaughn, Z. D., Schmidt, J., Lindsey, D. P., Dragoo, J. L.  
2009; 25 (9): 1011-1018
- **Evaluation of a one-stage ACL revision Technique using bone void filler after cyclic loading** *KNEE*  
Tse, B. K., Vaughn, Z. D., Lindsey, D. P., Dragoo, J. L.  
2012; 19 (4): 477-481
- **Early Catastrophic Failure of a Porous-Coated Acetabular Cup due to Bead Shedding. A Case Report** *HIP INTERNATIONAL*  
Hsu, A. R., Vaughn, Z., Huddleston, J. I.  
2009; 19 (4): 392-395
- **Laparoscopic Adrenalectomy for Conn's Syndrome Complicated by Ipsilateral Pelvic Kidney** *Surgical Endoscopy*  
Zackary Vaughn, Frank Johnson, R. Ivan Beretvas  
2004; 18 (10): 1539
- **Rab5a and Dynamin GTPases Mediate Substance P-Induced Trafficking of the Neurokinin-1 Receptor (NK1R)** *Gastroenterology*  
Schmidlin F, Dery O, Lovett M, Vaughn Z, Defea K, Grady E, Bunnett N  
2000; 118 (4): A180
- **The Proliferative and Antiapoptotic Effects of Substance P and Facilitated by Formation of a Beta-Arrestin-Dependent Scaffolding Complex** *Proceedings of the National Academy of the United States of America*  
Defea KA, Vaughn ZD, O'Bryan EM, Nishijima D, Dery O, Bunnett NW  
2000; 97 (20): 11086-11091
- **Dynamin, B-Arrestin and rab5a Mediated Trafficking and Signalling of the Neurokinin-1 Receptor (NK1-R)** *Regulatory Peptides*  
Dery O, Grady E, Schmidlin F, Lovett M, Vaughn Z, Grady E, Bunnett N  
2000; 94 (1-3): 17