

# **RYAN G. MIYAMOTO, MD, FAAOS**

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Fairfax, VA 22033

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**ryanmiyamotomd.com**

**virginiahiparthroscopy.com**

**northernvirginiahipsurgeons.com**

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## **EMPLOYMENT**

9/09-Current **Fair Oaks Orthopaedic Associates**

## **EDUCATION**

### **Post Graduate:**

8/08-7/09 **Steadman-Hawkins Sports Medicine Fellowship**  
**Vail, CO**  
Sports Medicine Fellowship

7/03-6/08 **New York University Hospital for Joint Diseases**  
**New York, NY**  
Orthopaedic Surgery Residency  
4 Month Trauma Rotation at Shock Trauma Center, Baltimore, MD

### **Medical:**

8/99-5/03 **University of Maryland School of Medicine**  
**Baltimore, MD**  
Doctor of Medicine: May 2003

### **Undergraduate:**

9/95-6/99 **Princeton University**  
**Princeton, NJ**  
Bachelor of Arts, Molecular Biology: June 1999

**Secondary Education:**

9/91-6/95 **Seneca Valley High School**  
**Germantown, MD**  
High School Diploma: June 1995

**HONORS/AWARDS****Professional:**

The Washingtonian, Top Doctor, Orthopaedic Surgery, 2020  
Castle Connolly Regional Top Doctor, 2020  
Northern Virginia Magazine, Top Doctor, Orthopaedic Surgery, 2020  
Virginia Living, Top Doctor, 2020  
Castle Connolly Regional Top Doctor, 2019  
The Washingtonian, Top Doctor, Orthopaedic Surgery, 2019  
Northern Virginia Magazine Top Doctor Orthopaedic Surgery, 2019  
The Washingtonian, Top Doctor, Orthopaedic Surgery, 2018  
Conference Co-Chairman, Virginia Orthopaedic Society Annual Meeting, 2019  
Presenter INOVA Sports Medicine Lecture Series, June 2018.  
Northern Virginia Magazine Top Doctor Orthopaedic Surgery, 2018  
Presenter INOVA Sports Medicine Symposium, June 2017.  
Presenter AAOS Instructional Course Lecture, National Meeting, March 2017  
Northern Virginia Magazine Top Doctor Orthopaedic Surgery, 2017  
The Washingtonian, Top Doctor, Orthopaedic Surgery, 2016  
Presenter/Moderator INOVA Capital City Sports Medicine Summit, May 2016  
Presenter AAOS Instructional Course Lecture, National Meeting, March 2016  
Instructor Fredricksburg Regional Sports Medicine Symposium, 2013-2016  
The Washingtonian, Top Doctor, Orthopaedic Surgery, 2015  
Guest Speaker, Virginia Society of Perianesthesia Nurses State Conference, Sept 2015  
Presenter AAOS Instructional Course Lecture, National Meeting, March 2015  
Courtside Physician West Coast Conference Basketball Tournament 2012-2016

Guest Speaker, National Surgical Assistant Association National Meeting,  
April 2014  
INOVA Shoulder Replacement Oversight Committee  
INOVA Fair Oaks-QI Committee  
Associate Master Instructor—AANA Masters Hip Arthroscopy Course, July  
2013  
Presenter/Moderator Virginia Orthopaedic Society May 2013  
Vitals.com Patients Choice Award 2012-2013  
Vitals.com Most Compassionate Doctors 2012-2013  
Instructor 1<sup>st</sup> Annual Depuy Mitek Hip Arthroscopy Course, Las Vegas, NV  
December 2012

### **Medical School:**

Rush Medical Club Honor Society

### **Undergraduate:**

Princeton Alumni Schools Committee Member  
Princeton Varsity Football—Ivy League Champions 1995

## **BOOK CHAPTERS**

1. **Miyamoto R**, Steadman J. "Chapter 18: Anterior Cruciate Ligament Tear in the Mature Athlete." The Care of the Mature Athlete. Ed: Chen and Hawkins. AAOS; January 2012.
2. **Miyamoto R**, Millet P. "Chapter 8: Distal Biceps Tendon Rupture." Evaluation and Management of Common Upper Extremity Disorders: A Practical Handbook. Ed: Rohde and Millett. Slack Incorporated; June 2011.
3. **Miyamoto R**, Philippon M. "Common Conditions of the Hip: Chapter 8: Cartilage." Musculoskeletal Examination of the Hip and Knee. Ed: Ranawat and Kelly. Slack Incorporated; January 2011.

## **PUBLICATIONS**

1. Buckland AJ, **Miyamoto R**, Patel RD, Slover J, Razi AE. "Differentiating Hip Pathology From Lumbar Spine Pathology: Key Points of Evaluation and Management." *J Am Acad Orthop Surg*. 2017 Feb; 25(2):e23-e34.

2. **Miyamoto R**, Millet P. "Current Concepts: Distal Biceps Tendon Injuries." *Journal of Bone and Joint Surgery*. Sept 2010; 92: 2128-2137.
3. Min W, Kaplan K, **Miyamoto R**, Tejwani NC. "A unique failure mechanism of a distal radius fracture fixed with volar plating – a case report." *Bull NYU Hosp Jt Dis*. 2010; 68(4); 304-306.
4. Duffy P, **Miyamoto R**. "Medial Collateral Ligament Injuries in the Knee: An Update and Review. *Physician and Sports Medicine*. June 2010; 38(2): 48-54.
5. **Miyamoto R**, Rose D, Egol K. "Treatment of Tibial Stress Fracture in Dancers: A Case Series." *American Journal of Sports Medicine*, June 2009; 37 (6): 1150-1154.
6. **Miyamoto R**, Bosco J, Sherman O. "Treatment of Medial Collateral Ligament Injuries in the Knee." *Journal of the American Academy of Orthopaedic Surgeons*, March 2009; 17(3): 152-161.
7. **Miyamoto R**, Taylor S, Bosco J. "Histological Presentation of Posterior Cruciate Ligament Reconstruction with Achilles Tendon Allograft at 11 Years Post-Op: A Case Report." *American Journal of Orthopaedics*, Jan 2009; (38)1: E25-27.
8. Kaplan K, **Miyamoto R**, Levine B, Egol K, Zuckerman JD. Surgical Management of Hip Fractures. An Evidence-Based Review of the Literature. Intertrochanteric Fractures." *Journal of the American Academy of Orthopaedic Surgeons*, Nov 2008; 16 (11): 665-673.
9. **Miyamoto R**, Kaplan K, Levine B, Egol K, Zuckerman JD. "Surgical Management of Hip Fractures: An Evidence-Based Review of the Literature. Femoral Neck Fractures." *Journal of the American Academy of Orthopaedic Surgeons*, Oct 2008; 16 (10): 596-607.
10. **Miyamoto R**, Klein GR, Walsh M, Zuckerman JD. "Study Habits of Orthopaedic Surgery Residents and Performance On the Orthopaedic In-Training Examination." *American Journal of Orthopaedics*. 2007; 36(12): E185-188.

11. **Miyamoto R**, Fornari E, Tejwani N. "Hoffa Fragment Associated with A Femoral Shaft Fracture: A Case Report." *Journal of Bone and Joint Surgery Am.* 2006 Oct; 88 (10): 2270-2274.
12. Schneper L, Krauss A, **Miyamoto R**, Fang S, Broach J. "The Ras/Protein Kinase A Pathway Acts in Parallel with the Mob2/Cbk1 Pathway To Effect Cell Cycle Progression and Proper Bud Site Selection." *Eukaryotic Cell.* 2004, 3: 108-120.
13. Solan M, Moorman C, **Miyamoto R**, Jasper L, Belkoff S. "Ligamentous Restraints of the Second Metatarsal Joint: A Biomechanical Evaluation." *Foot and Ankle International.* 2001; 22: 637-641.
14. **Miyamoto R**. "Isolation and Characterization of Genes that are Synthetic Lethal with RAS2 in *Saccharomyces cerevisiae*." Thesis submitted in partial fulfillment for BA degree. Princeton University, 1999.

## **PRESENTATIONS**

**Miyamoto R.** Live Hip Arthroscopy Surgery-Femoroacetabular Impingement. INOVA Sports Medicine Symposium. June 21, 2019.

**Miyamoto R.** "Femoroacetabular Impingement. INOVA Sports Medicine Lecture Series. June 27, 2018.

**Miyamoto R.** "Hip arthroscopy: Look what we are doing now!" INOVA Sports Medicine Symposium. June 16, 2017.

**Miyamoto R.** "Hip Arthroscopy Update: What's New in 2017." Fairfax Sports Medicine Fellow Day. Sports Medicine Symposium. April 27<sup>th</sup>, 2017.

**Miyamoto R.** "Is it the back or the hip; differentiating lumbar spine from hip pathologies: Key points of evaluation and treatment." Annual American Academy of Orthopaedic Surgeons National Meeting. March 17, 2017.

**Miyamoto R.** "Hip Arthroscopy Update: What's new in 2016." Fredericksburg Regional Sports Medicine Symposium. December 17, 2016.

**Miyamoto R.** Moderator and Speaker. "Hip and Hamstring Injuries—Case Presentations." INOVA Capital City Sports Medicine Summit. May 6, 2016.

**Miyamoto R.** "MCL Injuries—Can We Speed Up Recovery?" INOVA Capital City Sports Medicine Summit. May 5, 2016.

**Miyamoto R.** "Is it the back or the hip; differentiating lumbar spine from hip pathologies: Key points of evaluation and treatment." Annual American Academy of Orthopaedic Surgeons National Meeting. March 4, 2016.

**Miyamoto R.** "The Role of Hip Arthroscopy in the Treatment of Hip Disorders." Fredericksburg Regional Sports Medicine Symposium. December 15, 2015.

**Miyamoto R.** "Treatment Options for Shoulder Arthritis and Rotator Cuff Tears." VSPAN Annual State Conference. September 15, 2015.

**Miyamoto R.** "Is it the back or the hip; differentiating lumbar spine from hip pathologies: Key points of evaluation and treatment." Annual American Academy of Orthopaedic Surgeons National Meeting. March 24, 2015.

**Miyamoto R.** "Examination of the hip and knee in Sports Medicine Injuries." Fredericksburg Regional Sports Medicine Symposium. December 6, 2014.

**Miyamoto R.** "Treatment Options for Shoulder Arthritis and Rotator Cuff Tears." INOVA Perioperative Education Symposium. November 22, 2014.

**Miyamoto R.** "Treatment Options for Shoulder Arthritis and Rotator Cuff Tears." INOVA Ask the Expert Lecture. November 18, 2014.

**Miyamoto R.** "Management of Shoulder Instability." INOVA Annual Sports Medicine Symposium. June 20, 2014.

**Miyamoto R.** "What's New in Shoulder Replacement." INOVA Physical Medicine and Rehabilitation Department. April 28, 2014.

**Miyamoto R.** "Diagnosis & Treatment of Common Hip Joint Disorders: The Role of Hip Arthroscopy." National Surgical Assistant Association 31<sup>st</sup> National Conference. April 26, 2014.

**Miyamoto R.** "Common Procedures in Shoulder and Hip Arthroscopy. American Association of Professional Coders." March 18, 2014.

**Miyamoto R.** "Advances in Shoulder Replacement for the Primary Care Physician." December 14, 2013.

**Miyamoto R.** "Diagnosis & Treatment of Common Hip Joint Disorders: The Role of Hip Arthroscopy." Fredericksburg Regional Sports Medicine Symposium. December 14, 2013.

**Miyamoto R.** "The Role of Hip Arthroscopy in the Treatment of Common Hip Disorders." 2012 INOVA Perioperative Symposium. April 28, 2012.

**Miyamoto R,** Duffy P, Ho C, Hackett T. "Optimization of Magnetic Resonance Imaging of the Anterior Bundle of the Ulnar Collateral Ligament." Podium Presentation at the AANA 29<sup>th</sup> Annual Meeting. May 20, 2010.

Philippon M, **Miyamoto R,** Hay C, Briggs K. "Outcomes Following Hip Arthroscopy with Microfracture: Does Location of the Lesion Matter?" Poster presentation at the 2010 AAOS Annual Meeting. March 9-13, 2010.

**Miyamoto, R.** Surgical Treatment of Refractory Tibial Stress Fractures in Professional Dancers." American College Sports Medicine-Greater New York Regional Chapter, NYU, October 17, 2009.

**Miyamoto R.** "Distal Biceps Tendon Ruptures." Steadman-Hawkins Grand Rounds Presentation. April 27, 2009.

**Miyamoto R.** "Treatment of MCL and Combined Ligamentous Injuries." Steadman-Hawkins Grand Rounds Presentation. November 3, 2008.

**Miyamoto R.** "Surgical Treatment of Refractory Tibial Stress Fractures in Professional Dancers." Sir Robert Jones Lecture, NYUHJD, May 9, 2008.

**Miyamoto R.** "Treatment of MCL and Combined Ligamentous Injuries." NYUHJD Grand Rounds Presentation, April 2, 2008.

**Miyamoto R,** Schneper L, Broach J. "Isolation and Characterization of Genes that are Synthetic Lethal with RAS2 in *Saccharomyces cerevisiae*." Poster exhibit at the Princeton Summer Research Symposium, August 1994.





## **RESEARCH EXPERIENCE**

### **Steadman Hawkins Research Foundation, Vail, CO 2008-2009**

Mentors: Tom Hackett, M.D., Charles Ho, M.D.

Evaluation of patient positioning and scoring system of magnetic resonance imaging of the ulnar collateral ligament.

### **Steadman Hawkins Research Foundation, Vail, CO 2008-2009**

Mentor: Marc Philippon, M.D.

Evaluating outcomes of microfracture during hip arthroscopy and their relation to location of chondral lesion.

### **University of Maryland Orthopaedic Biomechanics Laboratory, University of Maryland School of Medicine, Baltimore, MD 1999-2000**

Mentors: Stephen M. Belkoff, Ph.D., Claude T. Moorman, III, M.D.

Evaluated strength and stiffness of the various components of the Lisfranc ligament complex in human feet.

### **National Institutes of Health, NIDCR, Bethesda, MD Summer 1999**

Mentor: Steven Leppla, Ph.D.

Investigated activation of transcription factors in mammalian cells in response to exposure to Anthrax toxin.

### **Department of Molecular Biology, Princeton University, Princeton, NJ 1998-1999**

Mentor: James Broach, Ph.D.

Analyzed effect of mutations and novel genes involved in Ras2/camp pathway in *Saccharomyces cerevisiae*. Research culminated in senior thesis "*Isolation and Characterization of Genes that are Synthetic Lethal with RAS2 in Saccharomyces cerevisiae.*"

### **National Institutes of Health, NIDCR, Bethesda, MD Summer 1997**

Mentor: Steven Leppla, Ph.D.

Project involved cloning multiple mutations of Lethal Factor (LF), a component of Anthrax toxin, into various vectors and monitoring the response in mammalian cells.

## **PROFESSIONAL LICENSURE AND CERTIFICATION**

### **Maryland**

License # D74434

### **Virginia**

License # 0101245582

### **Colorado**

License # 46796

### **New York**

License # 239645

### **American Board of Orthopaedic Surgery**

Board Certified, July 2011

### **Menaflex (Collagen Meniscal Implant)**

Certified: March 2009

## **ACTIVITIES**

1. **INOVA Operating Room Advisory Committee**, 2018-Present.
2. **INOVA Shoulder Replacement Oversight Committee**, 2013-2018.  
Fairfax, VA
3. **West Coast Conference Basketball Tournament**, Las Vegas, NV  
Tournament physician. 2012-2020.
4. **INOVA Fair Oaks Hospital QI/Peer Review Committee**, 2011-2018.  
Fairfax, VA
5. **Fairfax High School Football**, Fairfax, VA  
Staff physician.
6. **Eagle Valley High School Football**, Gypsum, CO  
Staff physician.  
2008  
Supervising Physician: William Sterett, M.D.
7. **Battle Mountain High School Football**, Eagle-Vail, CO  
Staff physician.  
2008

- Supervising Physician: William Sterett, M.D.
8. **Christ the King Football**, Flushing, NY  
Staff physician.  
2006-2007  
Supervising Physician: Joseph Bosco, M.D.
  9. **Alvin Ailey Dance Theatre**, New York, NY  
Staff physician.  
2004-2008  
Supervising Physician: Donald Rose, M.D.
  10. **NYU Varsity Basketball**, New York, NY  
Staff physician.  
2007  
Supervising Physician: Orrin Sherman, M.D.

## **ASSOCIATIONS**

Medical Society of Virginia  
American Academy of Orthopaedic Surgeons  
Arthroscopy Association of North America  
American Orthopaedic Society for Sports Medicine  
International Society for Hip Arthroscopy