

**Gregory D. Lopez, M.D.**  
*Board Certified*

**Education:**

**Rush University, Midwest Orthopaedics**  
Chicago, IL  
Spine Fellow  
2015-2016

**University of California, Irvine**  
Orange, California  
Resident Physician - Orthopaedic Surgery  
2010-2015

**University of Texas Health Science Center at San Antonio School of Medicine**  
San Antonio, Texas  
2006-2010

**University of Notre Dame**  
Notre Dame, Indiana  
Bachelor of Arts Anthropology & Pre-Professional Studies  
2002-2006

**Professional Athletics:**

**Toronto Blue Jays Baseball Organization**  
Selected in the 2006 MLB draft

**NCAA Athletics:**

**University of Notre Dame Baseball Team Member      2002-2006**  
*Shortstop and Team Captain*

-As a four-year starter, helped lead team to four consecutive Big East conference championships, four NCAA tournament appearances, and three years of top ten rankings  
-Selected as captain for both Junior and Senior seasons -Represented the University at various alumni and fundraising events

**Student Athlete Advisory Council      2004-2006**

-Elected as the representative for Baseball Team to discuss issues with University officials regarding academic and athletic issues

**Invited Lectureships:**

**Wake Forest University, Department of Orthopaedic Surgery.**

Invited by Dr. David Martin, MD, Past President of the American Board of Orthopaedic Surgery. April 17, 2013: "Surgical Simulation in Orthopaedic Surgery, where are we now and where are we headed?"

**Washington University, Department of Orthopaedic Surgery.**

Invited by Dr. Richard Gelberman, MD, Chair. September 12, 2013: "Surgical Simulation in

Orthopaedic Surgery, can low cost simulation improve surgical skills?"

**American Board of Orthopaedic Surgery Simulation Summit.** August 2016

"Does low fidelity training have a place within the Orthopaedic Surgery Curriculum?"

**Tenth Hospital of Shanghai**

"Preoperative and Intraoperative decision making in Adult Spinal Deformity."

### **Inventions:**

#### **Fundamentals of Orthopaedic Surgery (FORS)**

Creator and co-inventor with Dr. Ranjan Gupta, MD. This is a cost effective basic psycho-motor skills trainer and assessment tool simulating fracture reduction, drill control exercises, and wound closure.

#### **Low Cost Arthroscopic Surgical Skills Trainer**

Creator and co-inventor with Dr. Ranjan Gupta, MD. This is a cost effective basic psychomotor skills trainer and assessment tool for arthroscopy.

### **Research:**

#### **Book Chapters:**

**Lopez G;** Gupta R; Stern P; Tornetta P; Mozzacca G. "Changing the Surgical Educational Paradigm: How do you educate someone to have the skills of an Orthopaedic Surgeon?" Instr Course Lect. 2014; 63: 487-94. PubMed PMID: 24720333

**Lopez G;** Phillips F. "Minimally Invasive Sacro-Iliac Joint Fusion." Minimally Invasive Spine Surgery. Anderson G. Accepted for publication December 2016

**Lopez G;** Andersson G. "Annular Repair." The Spine, Rothman-Simeon Volume 2.

**Lopez G;** Singh K. "Revision MIS TLIF." Revision Spine Surgery: Pearls and Pitfalls. Accepted publication 2017.

#### **Peer Reviewed Full Length Manuscripts:**

**Lopez G,** Clifton-Koeppel R, Emil S. *Vacuum-assisted closure for complicated neonatal abdominal wounds.* J Pediatr Surg. 2008 Dec;43(12):2202-7. doi: 10.1016/j.jpedsurg.2008.08.067. PubMed PMID: 19040935.

Bederman SS, **Lopez G,** Ji T, Hoang B. *Robotic Guidance for En Bloc Sacrectomy: A Case Report.* Spine. 2014 Nov 1; 39(23): E1398-401. PubMed PMID: 25188597

Jain NS, **Lopez GD,** Bederman SS, Wirth GA, Scolaro JA. *Surgical Management of Complex Lower-Extremity Trauma With a Long Hindfoot Fusion Nail: A Case Report.* Foot Ankle Spec. 2015 Oct 8. pii: 1938640015609982. PubMed PMID: 26449526.

**Lopez G,** Wright R, Martin D, Jung J, Bracey D, Gupta R. *A cost-effective junior resident training and assessment simulator for orthopaedic surgical skills via fundamentals of orthopaedic surgery: AAOS exhibit selection.* J Bone Joint Surg Am. 2015 Apr 15;97(8):659-66. PubMed PMID:25878310.

Bhatia NN, **Lopez G**, Geck M, Gottlieb J, Eismont F. *Posterior cervical laminoplasty in the North American Population: A minimum of two year follow-up.* ClinNeurol Neurosurg. 2015 Aug 28;138:165-168. PubMed PMID: 26342438.

**Lopez G**, Martin DF, Wright R, Jung J, Hahn P, Jain N, Bracey DN, Gupta R. Construct Validity for a Cost-effective Arthroscopic Surgery Simulator for Resident Education. J Am Acad Orthop Surg. 2016 Dec;24(12):886-894. PubMed PMID: 27832043.

Mayo BC, Massel DH, Bohl DD, Long WW, Modi KD, Narain AS, Hijji FY, **Lopez G**, Singh K. Preoperative Mental Health Is Not Predictive of Patient Reported Outcomes following a Minimally Invasive Lumbar Discectomy. Clin Spine Surg. 2016 Oct 6.

Hijji FY, Narain AS, Bohl DD, Yom KH, Kudaravalli KT, **Lopez GD**, Singh K. Risk Factors Associated With Failure to Reach Minimal Clinically Important Difference in Patient-reported Outcomes Following Minimally Invasive Transforaminal Lumbar Interbody Fusion for Spondylolisthesis. Clin Spine Surg. 2017 May 19. PubMed PMID: 28538082.

**Lopez GD**, Hijji FY, Narain AS, Yom KH, Singh K. Iliac Crest Bone Graft: A Minimally Invasive Harvesting Technique. Clin Spine Surg. 2017 Jun 23. PubMed PMID: 28650883.

#### **Scientific Exhibits AAOS Annual Meeting:**

**Lopez G**, Martin DF, Wright R, Jung J, Bracey D, Gupta, R. *Cost-Effective Training and Assessment Simulators for Orthopaedic Surgical Skills.* Presented at the American Academy of Orthopaedic Surgeons Annual Meeting 2014, New Orleans, Louisiana. \*Presenter/creator of the exhibit and awarded the Scientific Exhibit Award of Excellence\*

**Lopez G**, Martin DF, Wright R, Jung J, Bracey D, Gupta, R. *Cost-Effective Arthroscopic Training and Assessment Tool for Resident Education.* Accepted at the American Academy of Orthopaedic Surgeons Annual Meeting 2015, Las Vegas, Nevada. \*Presenter/creator of the exhibit and awarded Scientific Exhibit Award of Excellence\*

#### **Podium Presentations:**

**Lopez G**, Martin DF, Wright R, Jung J, Bracey D, Gupta, R. *A Cost Effective Junior Resident Training and Assessment Simulator for Orthopaedic Surgical Skills via the Fundamentals of Orthopaedic Surgery (FORS).* AOA/COA Annual Meeting 2014, Montreal, Canada.

**Lopez G**, Martin DF, Wright R, Jung J, Bracey D, Gupta, R. *A Cost Effective Junior Resident Training and Assessment Simulator for Orthopaedic Surgical Skills via the Fundamentals of Orthopaedic Surgery (FORS).* Presented by Ranjan Gupta, MD, at the Association of Bone and Joint Surgeons Annual Meeting, 2014, New York, New York.

**Lopez G**, Martin DF, Wright R, Jung J, Bracey D, Gupta, R. *A Cost Effective Junior Resident Training and Assessment Simulator for Orthopaedic Surgical Skills via the Fundamentals of Orthopaedic Surgery (FORS).* Accepted for Presentation and Exhibit at California Orthopaedic Association 2015 Annual Meeting, Palm Desert, California.

Mayo BC, Massel DH, Modi KD, Long WW, **Lopez GD**, Singh K. Treatment of High-grade Isthmic Spondylolisthesis: Comparison of Minimally Invasive Transforaminal and Anterior Lumbar Interbody Fusion. 16th Annual Meeting of the International Society for the Advancement of Spine Surgery. Las Vegas, Nevada. 2016 April 6-8. (Podium presented by Massel DH).

Massel DH, Mayo BC, Long WW, Modi KD, Basques BA, **Lopez GD**, Singh K. Differences in Clinical Outcomes between Isthmic and Degenerative Spondylolisthesis Following a Minimally Invasive Transforaminal Lumbar Interbody Fusion. 16th Annual Meeting of the International Society for the Advancement of Spine Surgery. Las Vegas, Nevada. 2016 April 6-8. (Poster presented by Massel DH).

Massel DH, Mayo BC, Long WW, Modi KD, Basques BA, **Lopez GD**, Singh K. Minimally Invasive Transforaminal Lumbar Interbody Fusion: Comparison of Low Versus High-grade Isthmic Spondylolisthesis. 16th Annual Meeting of the International Society for the Advancement of Spine Surgery. Las Vegas, Nevada. 2016 April 6-8. (Poster presented by Massel DH).

#### Faculty Invitations/Presentations:

"Lateral Approach Indication and Anatomy." MIS Indications and Approaches Fellow/Resident Course, Rush University. Chicago, IL. August 2016.

"ACDF is still the Gold Standard." Spine Interactive Educational Program, San Diego 2016

"Degenerative Disk Disease, should we really operate?" Spine Interactive Educational Program, San Diego 2016.

"Does anyone use a laser in real spine surgery?" ISASS, Boca Raton 2016.

"Adolescent idiopathic scoliosis. Forget the numbers, if it were your child would you recommend surgery?" ISASS, Boca Raton, 2016

"The Learning Curve associated with minimally invasive spine surgery." ISASS Boca Raton 2016

"Management for Lumbar Degenerative Spondylolisthesis." ICL Symposium. AAOS Meeting, San Diego 2017.

Minimally Invasive Spine Surgery Instructor, AAOS Symposium. June 2017

American Orthopaedic Society for Sports Medicine Fellows Course, July 2017

American Orthopaedic Society for Sports medicine, Youth to the Big Leagues: How to manage the developing baseball player. October 2017

#### **Honors and Awards:**

**Winner of Scientific Exhibit Award of Excellence**, American Academy of Orthopaedic Surgeons Annual Meeting, 2014, New Orleans, Louisiana. Rated as the top exhibit of 90+ Exhibits at the meeting.

**Winner of Scientific Exhibit Award of Excellence**, American Academy of Orthopaedic Surgeons Annual Meeting, 2015, Las Vegas, Nevada. Rated as the top exhibit of 80+ exhibits at the meeting.

**Selected for OREF Resident Award for best resident manuscript at the 2015 California Orthopaedic Association Annual Meeting**, Palm Desert, California. Awarded \$2,000.

Nominated and selected for Resident Leadership Forum, 2014, Montreal, Canada.

**Awarded Balboa Scholarship for Academic Excellence (2008, 2009, 2010)**

University of Texas at San Antonio School of Medicine

**Keynote speaker for the University of Notre Dame Baseball Banquet 2008**

along with Bud Selig (commissioner of Major League Baseball)

**Major League Baseball Draft Selection- Toronto Blue Jays 2006**

**University of Notre Dame Baseball Team Captain 2005, 2006**

Elected by Team and coaches. Represented team as two-time captain.

**CoSIDA ESPN The Magazine Academic All-American Arthur Ashe Jr. Sports Scholar Award (National Award) 2006**

**CoSIDA ESPN The Magazine Academic All-District V All-Big East Conference Shortstop 2004**

**Big East Player of the Week 2004, 2006**

**Knute Rockne Student-Athlete Award 2004**

Given to outstanding Student-Athlete at the University of Notre Dame

**Big East Academic All-Star 2003-2006**

**NCAA Tournament Regional Finalists NCAA Tournament Participants 2003-2006**

**Big East Conference Tournament Champions 2003-2006**

First team in conference history to win 5 consecutive Big East Tournaments

**Personal Life:**

**Married with five children.**