

# Nick N. Patel, M.D.

## CURRENT POSITIONS

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<b>Delaware Orthopaedic Specialists</b> <i>Hip &amp; Knee Reconstructive Surgeon</i>	2021 – Present
<b>Center for Advanced Joint Replacement, ChristianaCare</b> <i>Medical Director</i>	2023 – Present

## EDUCATION

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<b>Harvard University's Brigham and Women's Hospital</b> <i>Adult Reconstruction Fellowship</i>	<b>Boston, MA</b> Aug 2020 – Jul 2021
<b>Emory University School of Medicine</b> <i>Orthopaedic Surgery Residency</i>	<b>Atlanta, GA</b> July 2015 – June 2020
<b>Emory University School of Medicine</b> <i>Doctor of Medicine</i>	<b>Atlanta, GA</b> July 2011 – May 2015
<b>Georgia Institute of Technology</b> <i>B.S. in Biomedical Engineering, Graduated with Highest Honors</i> Dual Degree Program with Emory	<b>Atlanta, GA</b> Aug 2009 – May 2011
<b>Emory University</b> <i>B.S. in Biology</i> Dual Degree Program with Georgia Tech	<b>Atlanta, GA</b> Aug 2006 – May 2009

## HONORS & AWARDS

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**Delaware Today Top Doctor: 2022**  
**2021 Tower Hill School Young Alumni Award**  
**Joseph B. Whitehead Surgery Scholarship:** Merit based scholarship received annually during medical education  
**Alpha Omega Alpha:** Inducted based on academic and clinical performance  
**Alpha Eta Mu Beta National Biomedical Engineering Honor Society:** Invited to join after being in top one-fifth of BME class  
**Tau Beta Pi Engineering Honor Society:** Invited to joined after being in the top one-eighth of the overall engineering class  
**Georgia Tech Faculty Honors:** Recognized for academic achievement and graduating with a 4.0 GPA  
**Emory University Dean's List:** Recognized for academic achievement at Emory University  
**First Place in the 2009 Emory Research Symposium**

## SOCIETY MEMBERSHIPS

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**American Association of Hip and Knee Surgeons**  
**American Academy of Orthopaedic Surgeons**  
**American Medical Association**  
**Medical Society of Delaware**

## PATENTS

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<b>"Access Device for Surgery" – Co-inventor</b> <i>Patent number US8771173 B2</i>	Issued July 8, 2014
<b>"Devices and Methods for Surgical Induction Heating" – Co-inventor</b> <i>Patent number US20200121495 A1</i>	Filed Oct 18, 2019

## PEER REVIEWED PUBLICATIONS

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- Fletcher ND, Lazarus DE, Desai MJ, **Patel NN**, Bruce RW. Medicaid insurance is associated with larger curves in patients who require scoliosis surgery. *Am J Orthop*. 2015 Nov;44(11):E454-7.
- Wise BT, **Patel NN**, Wier G, Labib SA. Outcomes of ACL Reconstruction With Fixed Versus Variable Loop Button Fixation. *Orthopedics*. 2017 Mar 1;40(2):e275-e280.
- Patel NN**, Labib SA. The Achilles Tendon in Healthy Subjects: An Anthropometric and Ultrasound Mapping Study. *J Foot Ankle Surg*. 2018 Mar - Apr;57(2):285-288.
- Patel NN**, Guild GN, Erens GA. Femoral Head-Trunnion Dissociation in Metal-on-Polyethylene Total Hip Arthroplasty – A Unique Case Report. *Reconstructive Review*. 2017 Dec;7(4).
- Patel NN**, Bruce RW. Transcapsular Buttonholing of the Proximal Ulna as a Cause for Irreducible Pediatric Anterior Elbow Dislocation. *Case Rep Orthop*. 2018 May 9;2018:8986230.
- Gottschalk MB, **Patel NN**, Boden AL, Kakar S. Treatment of Basilar Thumb Arthritis: A Critical Analysis Review. *JBJS Rev*. 2018 Jul 10.
- Patel NN**, Guild GN, Kumar AR. Intra-wound Vancomycin in Primary Hip & Knee Arthroplasty - A Safe and Cost-effective Means to Decrease Early Periprosthetic Joint Infection. *Arthroplasty Today*, 2018. 4(4): p. 479-483.
- Patel NN**, Shah JA, Sadlack CK. Post-Operative Thrombotic Thrombocytopenic Purpura After Total Hip Arthroplasty: A Case Report and Review of the Literature. *Case Rep Orthop*. 2018 Oct 23;2018:9716170.
- Patel NN**, Shah JA, Erens GA. Current Trends in Clinical Practice for the Direct Anterior Approach Total Hip Arthroplasty. *J Arthroplasty*. 2019 Apr 18. pii: S0883-5403(19)30357-2.
- Shah JA, **Patel NN**. Decreased Early Complication Rates Associated with Rheumatoid Arthritis Compared to Alternate Indications for Total Elbow Arthroplasty. *Int J Orthop*. 2019; 6(5). Epub 2019 Oct 28.
- Shah JA, **Patel NN**, Michael KW. Spontaneous Spinal Epidural Hematoma: Atypical clinical presentation and discussion of management. *Int J Spine Surg*. 2020 Apr 30;14(2): 158-161.
- Werner E, Brinkmann E, **Patel N**, Chen A, Ready J, Estok D, Shah V. Clinical Outcomes and Survivorship of Distal Femur Replacements Using Cemented versus Cementless Femoral Stems: Submitted for publication 2022.

## PRESENTATIONS

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### Podium Presentations

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| <b><i>Outcomes of ACL Reconstruction with Fixed Versus Variable Loop Button Fixation</i></b><br>Wise BT, Patel NN, Wier G, Labib SA<br>Eastern Orthopedic Association                    | <b>Amelia Island, FL</b><br>Oct 22, 2014 |
| <b><i>The Achilles Tendon in Healthy Subjects: An Anthropometric and Ultrasound Mapping Study</i></b><br>Patel NN, Labib SA<br>Eastern Orthopedic Association                            | <b>New Orleans, LA</b><br>Oct 20, 2016   |
| <b><i>Fractures of the Pediatric Upper Extremity</i></b><br>Emory Orthopaedic Surgery Department Grand Rounds  | <b>Atlanta, GA</b><br>Oct 6, 2017        |
| <b><i>Intra-wound Vancomycin in Hip &amp; Knee Arthroplasty – A Safe and Cost Effective Means to Decrease PJI</i></b><br>Patel NN, Guild GN, Kumar AR<br>2018 Kelly Day Research Session | <b>Atlanta, GA</b><br>June 8, 2018       |
| <b><i>Current Trends in Clinical Practice for the Direct Anterior Approach Total Hip Arthroplasty</i></b><br>Patel NN, Shah JA, Erens GA<br>2020 Kelly Day Research Session              | <b>Atlanta, GA</b><br>June 5, 2020       |

## **CardioScout Surgical Device for Minimally Invasive Delivery of Therapies to the Beating Heart**

Patel NN, Jorgensen C, Haque T, Rego K

Made presentations on multiple occasions which included live demonstration of device on human heart models. Presentations include:

- Georgia Tech Alumni Association Board **Atlanta, GA**  
Aug 19, 2011  
Invited by the board president to speak to all trustees during a board meeting
- Georgia Tech and Emory Department of Biomedical Engineering Advisory Board Apr 27, 2011  
Presented to distinguished faculty as well as BME industry executives
- Surgical Invention Convention Apr 7-8, 2011  
Presented and demonstrated device to potential investors and industry leaders
- Georgia Tech Advisory Board Apr 4, 2011  
Invited to present to board members, which included numerous Fortune 500 company executives
- Georgia State Capitol: Presented to the House Science and Technology Committee Feb 9, 2011  
Hour-long presentation to GA Tech President Bud Peterson, Committee Chairman Amos Amerson, and other representatives
- Saint Joseph's Translational Research Institute Nov 8, 2010  
Presented to GA Tech President Bud Peterson and members of the Georgia Board of Regents

### **Poster Presentations**

*Intra-wound Vancomycin in Primary Hip & Knee Arthroplasty - A Safe & Cost-effective Means to Decrease PJI* **Las Vegas, NV**  
Mar 14, 2019  
Patel NN, Guild GN, Kumar AR  
AAOS 2019 Annual Meeting

*Outcomes of ACL Reconstruction with Fixed Versus Variable Loop Button Fixation* **Atlanta, GA**  
Apr 23, 2015  
Wise BT, Patel NN, Wier G, Labib SA  
Annual Emory Research Symposium

*Novel Device for Stem Cell Delivery to the Beating Heart Under Direct Visualization via Subxiphoid Approach* **Washington, DC**  
June 8-11, 2011  
Patel NN, Jorgensen C, Haque T, Rego  
International Society for Minimally Invasive Cardiothoracic Surgery

*CardioScout Novel Device for Minimally Invasive Cardiac Surgery* **Atlanta, GA**  
March 29-30, 2011  
Patel NN, Jorgensen C, Haque T, Rego  
South Eastern Medical Device Association Conference

*Alveolar Macrophage Function in Sickle Cell Disease* **Atlanta, GA**  
Apr 24, 2009  
Patel NN, Chappa P, Archer DR  
2009 Emory Research Symposium – 1<sup>st</sup> place overall

### **PRIOR WORK EXPERIENCE**

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**Tim Plastics, Inc.**  
*Design Engineer*

**North East, MD**

### **ACTIVITIES**

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**GA Tech BME Department**  
*Senior Design Project Advisor*

**Atlanta, GA**

- Mentored a team of biomedical and mechanical engineering students with developing technology to solve an unmet need in orthopaedics

**Thomas Whitesides Orthopaedic Society**  
*Student Mentor*

**Atlanta, GA**

- Mentored medical students interested in pursuing a career in orthopaedic surgery