

# Nick N. Patel, M.D.

## CURRENT POSITIONS

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**Delaware Orthopaedic Specialists**  
*Hip & Knee Reconstructive Surgeon*

2021 – Present

**Center for Advanced Joint Replacement, ChristianaCare**  
*Medical Director*

2023 – Present

## EDUCATION

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**Harvard University's Brigham and Women's Hospital**  
*Adult Reconstruction Fellowship*

**Boston, MA**  
Aug 2020 – Jul 2021

**Emory University School of Medicine**  
*Orthopaedic Surgery Residency*

**Atlanta, GA**  
July 2015 – June 2020

**Emory University School of Medicine**  
*Doctor of Medicine*

**Atlanta, GA**  
July 2011 – May 2015

**Georgia Institute of Technology**  
*B.S. in Biomedical Engineering, Graduated with Highest Honors*  
Dual Degree Program with Emory

**Atlanta, GA**  
Aug 2009 – May 2011

**Emory University**  
*B.S. in Biology*  
Dual Degree Program with Georgia Tech

**Atlanta, GA**  
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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**"Access Device for Surgery" – Co-inventor**  
*Patent number US8771173 B2*

Issued July 8, 2014

**"Devices and Methods for Surgical Induction Heating" – Co-inventor**  
*Patent number US20200121495 A1*

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

#### *Outcomes of ACL Reconstruction with Fixed Versus Variable Loop Button Fixation*

Wise BT, Patel NN, Wier G, Labib SA  
Eastern Orthopedic Association

**Amelia Island, FL**

Oct 22, 2014

#### *The Achilles Tendon in Healthy Subjects: An Anthropometric and Ultrasound Mapping Study*

Patel NN, Labib SA  
Eastern Orthopedic Association

**New Orleans, LA**

Oct 20, 2016

#### *Fractures of the Pediatric Upper Extremity*

Emory Orthopaedic Surgery Department Grand Rounds

**Atlanta, GA**

Oct 6, 2017

#### *Intra-wound Vancomycin in Hip & Knee Arthroplasty – A Safe and Cost Effective Means to Decrease PJI*

Patel NN, Guild GN, Kumar AR  
2018 Kelly Day Research Session

**Atlanta, GA**

June 8, 2018

#### *Current Trends in Clinical Practice for the Direct Anterior Approach Total Hip Arthroplasty*

Patel NN, Shah JA, Erens GA  
2020 Kelly Day Research Session

**Atlanta, GA**

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

## **Poster Presentations**

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

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

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

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

***Alveolar Macrophage Function in Sickle Cell Disease*** **Atlanta, GA**  
Patel NN, Chappa P, Archer DR  
Apr 24, 2009  
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