

Celine F. Nicolas, BS

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EDUCATION

Binghamton University (*Binghamton, NY*)

08/2013-05/2017

Bachelor of Science, Biochemistry

Clarkstown High School North (*New City, NY*)

03/2010-12/2013

Advanced Regents Diploma with Mastery in Math and Science

PROFESSIONAL EXPERIENCE

Sia Lab (Columbia University, Dept. of Biomedical Engineering)

11/2019-present

Research Assistant

New York, NY

- Surgically induce critical limb ischemia in a mouse model to study a microtissue stem cell therapy
- Learn the design of a MATLAB code for Laser Speckle Contrast Analysis to monitor blood flow

Richard Westreich MD PLLC

10/2019-present

Medical Assistant, Facial Plastic Surgery

New York, NY

- Perform clinical and clerical tasks to facilitate office procedures, surgical cases, and practice operations
- Assist publication efforts for the online chapter "Seeing through the Envelope: The Cartilage Shape Requirements for an Aesthetically Pleasing Nasal Tip"

Dept. of Pediatric GI, Hepatology, & Nutrition (Columbia University Irving Medical Center)

11/2019-02/2020

Research Assistant, Molecular Biology

New York, NY

- Learned how to isolate RNA from human esophageal biopsies using the Qiagen RNeasy Mini Kit
- Introduced to informed consent procedures for a pediatric GI disease biobank study

Microsurgery Laboratory (Columbia University Irving Medical Center, Dept. of Orthopedic Surgery)

08/2018-12/2019

Research Assistant, Microsurgery

New York, NY

- Investigated surgical techniques for optimizing microvascular anastomosis training and for applying porcine-derived extracellular matrix nerve wraps in rat model studies funded by grants awarded by the Orthopedic Scientific Research Foundation and Axogen, Inc.
- Investigated a model for chronic lower limb lymphedema in the rat for testing the efficacy of vascularized lymph node transplant

Assistant Instructor, Basic Microsurgery Course, Advanced Microsurgery Course, Supermicrosurgery Course

- Often independently, coached and assessed 3 surgeons a week in techniques using the live rat model
- Created and maintained spreadsheets used to provide ongoing analysis of revenue and expenses

Division of Pediatric Anesthesiology (Morgan Stanley Children's Hospital of NYP/CUIMC) Summer 2016, Fall 2018

Anesthesia Technician Intern

New York, NY

- Assisted IV-line assembly and insertion and restocked anesthesia carts in 100+ pediatric and OB/GYN cases

Clinical Protocol & Data Management Office (Herbert Irving Comprehensive Cancer Center, Columbia University Irving Medical Center)

06/2015-08-2015

Research Support Assistant

New York, NY

- Supported regulatory, financial, clinical, study management, and compliance personnel in running cancer clinical trials and launching the new Phase I unit

Ambulatory Surgery Department (Lourdes Hospital)

01/2015-05/2015

Patient Liaison

Vestal, NY

- Provided hospitality to post-operative patients; performed administrative and maintenance duties

PUBLICATIONS

1. Nicolas CF, Corvi JJ, Zheng Y, Akelina Y, Engemann A, Strauch RJ. Understanding porcine small intestinal submucosa extracellular matrix as a nerve barrier material. *Manuscript in preparation*
2. Zheng Y, Nicolas CF, Corvi JJ, Kurtzman JS, Park KH, Coley SM, Marboe CC, Akelina Y, Strauch RJ. Large and uneven bites

in end-to-end anastomosis of the rat femoral artery. *Journal of Reconstructive Microsurgery*. In press

3. Levi MA, Harb AA, **Nicolas CF**, Corvi JJ, Kozato A, Akelina A, Kadiyala K, Strauch RJ. Torsion is Tolerated in Arterial End to Venous Side Anastomoses in the Rat Model. *Journal of Reconstructive Microsurgery*. In press
4. Harb AA, Levi MA, Corvi JJ, **Nicolas CF**, Zheng Y, Chaudhary KR, Akelina Y, Connolly EP, Ascherman JA. Creation of a Rat Lower Limb Lymphedema Model. *Annals of Plastic Surgery*. In press
5. Zheng Y, Corvi JJ, **Nicolas CF**, Akelina Y. A Novel Approach Using a Silicone Tube to Assist Microsurgical Anastomosis Training in Animal Models. *International Microsurgery Journal*. 2020;4(1):1.
6. Zheng Y, Corvi JJ, **Nicolas CF**, Akelina Y. Supermicrosurgery simulation training program for submillimeter anastomoses in the rat epigastric artery and vein. *Microsurgery*. Epub 2019 November.
7. Akelina Y, **Nicolas CF**, Corvi JJ, Zheng Y. Microsurgery: Surgery through a different lens. *InvivoX Magazine: Training Room*. Epub 2019 January.

CONFERENCE PROCEEDINGS

1. **Nicolas CF**, Corvi JJ, Zheng Y, Akelina Y, Engemann A, Strauch RJ. Overtightening a Resorbable Nerve Wrap: Is it Possible? The 2020 Annual Meeting of the American Society for Surgery of the Hand. October 1-3, 2020. *Submitted*
2. Harb AA, **Nicolas CF**, Corvi JJ, Levi MA, Zheng Y, Akelina Y, Connolly EP, Ascherman JA. Successful Creation of Lymphedema in a Rat Model. The 2020 Annual Meeting of American Society for Reconstructive Microsurgery, Fort Lauderdale, FL. January 10-14, 2020. *Accepted*
3. Corvi JJ, Harb AA, **Nicolas CF**, Levi MA, Zheng Y, Chaudhary KR, Akelina Y, Connolly EP, Ascherman JA. Creation of a Rat Lower Limb Lymphedema Model. Discovery Day 2019, Drexel University College of Medicine, Philadelphia, PA. November 7, 2019. *Accepted*
4. Ascherman JA, Harb AA, **Nicolas CF**, Corvi JJ, Levi MA, Zheng Y, Akelina Y, Connolly EP. Successful Creation of Lymphedema in a Rat Model. Northeastern Society of Plastic Surgeons, 36th Annual Meeting, Pittsburgh, PA. October 3-6, 2019. #93

VOLUNTEER AND COMMUNITY WORK

- **projectUmbrella** | Volunteer member; offer members of NYC's homeless communities seasonal care packages and friendly conversation (08/2019-present)
- **Girls, Inc. of New York City** | Volunteer educator; co-organize a program for girls to visit a laboratory and hear lectures to develop enthusiasm for and skills in STEM under OperationSMART initiative (09/2019-present)
- **MiniBridge Program (Binghamton University Biochemistry Club)** | Volunteer mentor; explained and demonstrated science experiments at a local elementary school (01/2015-5/2017)
- **Jewish Women International** | Volunteer member; ranked top 5 among 100 sellers in an OPI nail polish collaboration raising money for empowering the youth to break the cycle of violence against women (11/2015-05/2016)
- **Sharsheret (Chabad at Binghamton)** | Event coordinator & featured performer; organized and danced in the annual breast cancer benefit fashion show raising \$5000+ for Jewish women and their families facing breast cancer (11/2014-05/2017)
- **Preventing Child Abuse America** | Chairperson; drove participation in annual philanthropy kickball tournament and Pinwheels for Prevention® campaign (11/2014-05/2017)
- **Rockland Youth Dance Ensemble** | Ensemble dancer; performed *The Nutcracker* at Helen Hayes Rehabilitation Hospital in Pomona, NY (12/2011)

OTHER EMPLOYMENT

- **Rick's Club American Restaurant** | Food server & team lead at casual-dining restaurant, Congers, NY (06/2018-present)
- **Abercrombie & Fitch Co.** | Brand representative for a retail company, West Nyack, NY (06/2013-08/2015)
- **American Pool New York** | Certified American Red Cross lifeguard trained in, first aid, CPR, AED (06/2014-06-2015)
- **Deer Mountain Day Camp** | Certified lifeguard & swimming instructor, Pomona, NY (06/2014-08/2014)

INTERESTS

- **Ballet** | *Jazz Nutcracker* (Featured Dancer, Binghamton University, 2016), *Impulse* (Featured Dancer, Binghamton University, 2015), *Creatures* (Soloist, Binghamton University, 2015), *Orpheus* (Ensemble Dancer, Binghamton University, 2015), *The Nutcracker* (Principal Dancer, Rockland Youth Dance Ensemble, 2005-2012)
- **Data science** | Skilled in GraphPad Prism statistical software, familiar with C/C++, knowledge of Python and R
- **Digital & graphic design** | Expertise in Adobe Photoshop and Apple iMovie