

## Professional Experience

### Locums Critical Care Medicine

June 2022 – Present

#### Intensivist

##### Previous Assignments:

- Penn Highlands Health System, DuBois, PA (Interim Physicians) July 2022 – September 2022 – MICU/CVICU
- Cape Fear Medical Center, Fayetteville, NC (All Star) September 2022 – December 2022 -MICU/CVICU/SICU
- Wellspan Ephrata Community Hospital, Ephrata, PA (All Star) September 2022 – January 2023- MICU
- Robert Wood Johnson University Hospital, Rahway, NJ (Barton) January 2022 – Present - MICU/SICU
- CarolinaEast Medical Center, New Bern, NC (Austin Major Group) March 2023 -MICU/SICU
- Hunterdon County Medical Center, Flemington, NJ (Alumni Staffing) March 2023- MICU
- St. Joseph’s Medical Center, Wayne, NJ (Cross Country) March 2023- July 2023 -MICU
- Northern Arizona Healthcare, Verde Valley/Flagstaff, Arizona (Aya) August 2023-September 2023 – MICU
- Christ Hospital, Cincinnati, OH (Austin Major Group) December 2023 – May 2024 – ECMO/LVAD/Transplant CVICU
- HCA Mercy Hospital, Miami, FL (All Star) August 2024 – Jan 2025 CVICU/MICU
- University of Arkansas Medical Center (Barton) January 2025 – Present - ECMO/LVAD/Transplant CVICU

### Nuview Health, Edison, NJ

July 2020 – June 2022

#### Intensivist

##### Achievements & Responsibilities:

- Managed 40 bed ICU, attended to RRT/CODE BLUE
- Member of ICU and Quality Committees
- Proficient in bronchoscopy, bedside ultrasound, line and tube placement as well as ventilator management

### Critacuity, Sellersville, PA

July 2019 – July 2020

#### Intensivist

##### Achievements & Responsibilities:

- Managed 14 bed ICU
  - Member of ICU and Quality Committees
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- Proficient in bronchoscopy, bedside ultrasound, line and tube placement as well as ventilator management

**Inspira Health System**, Vineland, NJ

July 2017 – July 2019

**Critical Care Medicine Fellowship - Physician – PGY 4-5**

Achievements & Responsibilities:

- Trained by Cooper University Intensivist
- Proficient in bronchoscopy, bedside ultrasound, line and tube placement as well as ventilator management

**Lehigh Valley Hospital – Pocono**, East Stroudsburg, PA

June 2016 – June 2017

**Internal Medicine – Attending Physician**

Achievements & Responsibilities:

- Staff Internal Medicine Hospitalist with TeamHealth

**Lehigh Valley Hospital – Cedar Crest**, Allentown, PA

July 2015 – June 2016

**Internal Medicine – Attending Physician**

Achievements & Responsibilities:

- Internal Medicine Hospitalist
- Academic Attending, teaching medical students through residents
- Member of Sepsis Task Force to help reduce institution M&M

**Saint Barnabas Hospital**, Bronx, NY

June 2013 – July 2015

**Internal Medicine Resident - Physician – PGY 2-3**

Achievements & Responsibilities:

- Provided weekly lectures to medical student and fellow residents
- Took on educational role by participating as a leader in formal weekly board review
- Participated in health screening at community fairs
- SBH clinical lecturer to BS-MD students from NYC university program

**UMDNJ - Kennedy University Health Sys/Our lady of Lourdes Hospital** Stratford, NJ

June 2012 – June 2013

**Traditional Rotating Internship - Physician – PGY 1**

Achievements & Responsibilities:

- Chief Intern 2012-2013
  - Acted as resident liaison to hospital informatics, providing input and feedback on latest project deployment
  - Provided weekly lectures to medical student and fellow residents
  - Completing traditional rotating year to begin an internal medicine residency
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**DS Medical Informatics Consulting, Philadelphia, PA**

June 2006 – 2012

**Owner/Consultant**

Achievements & Responsibilities:

- Provided data acquisition, management and analysis for hospital based informatics systems in several Philadelphia area hospitals
- Provided cost and hardware analysis for grant proposals and outlines
- Proven history of being able to facilitate mirroring of practice/research based initiatives and IT needs and performance

**The Children's Hospital of Philadelphia, Philadelphia, PA**

April 2003 – July 2007

**Sr. Research Associate – Neurology & Radiology**

Achievements & Responsibilities:

- Research associate on multiple research projects encompassing perfusion MRI and neuroprotection in neonates with severe congenital heart defects and pediatric stroke
  - Ability to recruit collaborators in similar fields in effort to complete projects goals
  - Contributing member of the CHOP Stroke team and Neurocardiac Research Program
  - Designed, networked and maintained fully functional research database for real-time data analysis purposes
  - Grew MRI image analysis lab from 1 imaging station (at hire) to over 15 clients all capable running the same imaging protocol
  - Started first research PACS system at CHOP comprised of a 3 server cluster for analysis and a 15Tb storage array
  - Provided in-services to CHOP nursing and radiology staff on perfusion MRI and neuroprotection studies
  - Advanced clinical research on intellectual, technical and administrative levels
  - Developed, managed and administrated clinical research projects in neonatal neuroprotection, supervising as many as three technicians
  - Implemented novel neuroimaging analysis technology via Matlab and IDL
  - Supplied data analysis upon request of primary investigator
  - Proven ability to identify study needs and supply solutions
  - Track record of being a problem solver for stroke research group and MRI Analysis Core
  - Liaison to hospital regulatory affairs and compliance
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**University of Pennsylvania Medical School**, Philadelphia, PA

November 2000 – March 2003

**Research Associate – Howard Hughes Medical Institute - Neuroscience**

Achievements & Responsibilities:

- Investigated the cellular mechanisms of biological clocks and sleep
- Performed various molecular, immunology, and histology techniques
- Formally presented research in weekly lab and departmental meetings
- Demonstrated ability to problem solve and think independently
- Frequently attended seminars on current research in neuroscience
- Conducted own experiments as well as supporting others

**Integro Scientific Recruiting**, Lawrenceville, NJ

June 2000 – October 2000

**Account Executive**

Achievements & Responsibilities:

- Recruited professionals for both biotech and pharmaceutical industries

## Education

Inspira Health System, Vineland, NJ

**Critical Care Medicine Fellowship**

July 2017 - July 2019

St. Barnabas Health System, Bronx, NY

**Internal Medicine Residency**

July 2013 - July 2015

UMDNJ-SOM, Stratford, NJ

**Traditional Rotating Internship - Medicine**

July 2012 - June 2013

Lake Erie College of Osteopathic Medicine, Erie, PA

**DO - Medicine**

July 2007 - June 2012

University of Pennsylvania, Philadelphia, PA

**Post Graduate**

January 2002 – July 2004

King's College, Wilkes-Barre, PA

**BS - Molecular Genetics**

August 1996 – May 2000

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## Publications

- Chen J, Licht DJ, Smith SE, Agner SC, Mason S, Wang S, **Silvestre DW**, Detre JA, *Preoperative Cerebral Blood Flow is Diminished in Neonates with Congenital Heart Defects*. Wang J. Journal of Magnetic Resonance Imaging. 2009 Feb;29(2):282-90.
- Wang J, Licht, DJ, **Silvestre DW**, Detre, et al. *Why perfusion in neonates with congenital heart defects is negative--technical issues related to pulsed arterial spin labeling*. Magnetic Resonance Imaging. 2006 Apr;24(3):249-54
- Daniel J Licht MD, Jiongjiong Wang PhD, **David W. Silvestre BS**, Susan C. Nicolson, MD *Preoperative Cerebral Blood Flow is Diminished in Neonates with Congenital Heart Defects*. Journal of Thoracic and Cardiovascular Surgery. 2004 128: 841-849
- Lesley J. Ashmore, Sriram Sathy, **David W. Silvestre**, Mark M. Emerson, Peter Schotland, and Amita Sehgal. *Novel Insights into the Regulation of the Timeless Protein*, Journal of Neuroscience. 2003 23: 7810-7819

## Presentations, Posters, and Acknowledgements

- Shellhaas, RA, **Silvestre DW**, Wang J, Ichord RN, Licht DJ. *Perfusion MRI in Childhood CNS Vasculopathy and Stroke*. Child Neurology Conference. 2005
- Daniel J Licht MD, Jiongjiong Wang PhD, John Haselgrove PhD, Robert A. Zimmerman MD, **David W. Silvestre BS**, John A Detre MD. *Pulsed Arterial Spin Labeling Perfusion MRI in Pediatrics: Strengths and Advantages*. Child Neurology Conference. 2004
- Daniel J Licht MD, Jiongjiong Wang PhD, **David W. Silvestre BS** et al. *Preoperative Cerebral Blood Flow is Diminished in Neonates with Congenital Heart Defects*. American Association for Thoracic Surgery. Toronto. 2004
- Sriram Sathyanarayanan, Xiangzhong Zheng, Rui Xiao, and Amita Sehgal *Posttranslational Regulation of Drosophila PERIOD Protein by Protein Phosphatase 2A*. Cell 2004 116: 603-615

## Licenses, Boards, Awards & Certifications

- PA, NJ, VA, MD, NC, TN, FL, AZ, OH, ID, OK, AK State Medical License with no restrictions
  - AOBIM certification in Critical Care Medicine (2023) and Internal Medicine (2019)
  - Completing ELSO Adult ECMO Practitioner Certification (E-AEC) as of Feb 2025
  - Current BLS, ACLS, PALS, ATLS certification
  - 1<sup>st</sup> Prize LECOM Research Day (2008)
  - HIV/AIDS Educator – American Red Cross
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