

# Danielle Luz

## EDUCATION

---

<b>Stanford University - Lucille Packard Children's Hospital</b> Clinical Informatics Fellowship Medical Genetics and Genomics Residency	<b>Palo Alto, Ca</b> July 2027 August 2025
<b>Rush University Medical Center</b> Pediatric Residency	<b>Chicago, IL</b> June 2023
<b>Herbert Wertheim College of Medicine</b> Doctor of Medicine	<b>Miami, FL</b> April 2020
<b>Florida State University</b> Bachelor of Sciences in Biology and Psychology ( <i>magna cum laude</i> ) with minors in Mathematics and Chemistry, Phi Beta Kappa	<b>Tallahassee, FL</b> May 2016

## OPERATIONAL PROJECTS

---

### **Bay Area Medical Informatics Society (BAMIS) 2026 Symposium** | *Lead Organizer*

- Organizing the 2026 regional symposium for the Bay Area Medical Informatics Society.
- Responsibilities include coordinating AI governance panels, managing the speaker series, and overseeing the integration of technical workshops.

### **Epic Genomics Module Implementation** | *Subject Matter Expert (SME)*

- Serving as the clinical SME for the institutional implementation of the Epic Genomics module.
- Guiding clinical configuration, workflow integration, and testing to ensure seamless adoption by genetics providers.

### **Vancomycin OPA ("OurPractice Advisory") De-implementation Trial** | *Project Lead*

- Leading a trial focused on the de-implementation of the Vancomycin "OurPractice Advisory" (OPA) to reduce alert burden.
- Developing the data collection and analysis plan for future submission to AMIA and IDWeek.

### **Project GECKO (Genetics Evaluation Tracking Tool)** | *Strategic Lead*

- Leading the measurement of "utility of episodes" and developing dashboards to track genetics evaluations.
- Functioning as the lead for exploring long-term tracking solutions to prevent patients from being lost to follow-up.

### **"Clickbusters" Alert Fatigue Initiative** | *Stanford Medicine*

- Led a root cause analysis and system intervention for "Dosing Calculated Weight" (DCW) alerts.
- Successfully reduced provider alert fatigue by optimizing BestPractice Advisories (BPAs) in the NICU and CVICU.

### **Automated Pre-rounding Implementation** | *Rush University Medical Center*

- Developed and implemented an automated pre-rounding tool for the General Care Nursery to streamline resident workflow and improve patient safety.

### **Newborn Nursery Handoff Optimization** | *Rush University Medical Center*

- Redesigned the newborn nursery handoff tool to better integrate risk algorithms for early-onset sepsis.
- Improved data capture accuracy and identification speed for at-risk infants.

# Danielle Luz

## PUBLISHED ABSTRACTS

---

- Carter C, **Luz D**, Smith EE, Scott SA, Srinivas NS, Shi RZ, Tise CG. *Transient neonatal zinc deficiency due to maternal variants in SLC30A2: an ideal candidate for carrier screening with an unusual inheritance pattern.* J Investig Med 2026; 74(1). *Acquired phenotypic data. Provided revision of the Case Presentation section.*
- **Luz D**, Matalon D. *Speaking in Tongues: Mosaic Genome-wide Uniparental Isodisomy as a rare cause of Macroglossia.* J Investig Med 2025; 73: 538.
- Basharkhah S, **Luz D**, Li M. *Navigating Sotos Syndrome.* J Investig Med 2024; 72: 334. *Conception, Acquisition of data, Revision of the manuscript*

## ORAL PRESENTATIONS

---

- **Luz D**, Mohiuddin I, , Vo A, Schoeffler A, Daneshpajouhnejad P, Seddighzadeh B, Colston J, Subbaraj L. **"Vibe Coding for the Modern Clinician"** – Bay Area Medical Informatics Symposium, Palo Alto, Ca, (February 2026)
- **Luz D**, Matalon D. **"Speaking in Tongues: Mosaic Genome-wide Uniparental Isodisomy as a rare cause of macroglossia"** – Western Society for Pediatric Research, Carmel, CA (Jan 2025).
- **Luz D**. **"Big Data in Rare Disease: Leveraging EHR Analytics to Improve Genetic Diagnosis"** – Stanford Medical Genetics Grand Rounds, Palo Alto, CA (Dec 2024).
- Basharkhah S, **Luz D**, Li M. **"Navigating Sotos Syndrome: A Complex Case with Persistent Gastrointestinal Challenges"** – Western Society for Pediatric Research, Carmel, CA (Jan 2024).
- **Luz D**. **"Vaping in Adolescents"** – RUMC Primary Care Advocacy Conference, Chicago, IL (March 2022).

## POSTER PRESENTATIONS

---

- Bright HB, Paschal CR, Lenahan AL III, **Luz D**, Sikes MC, Kapur R, Bernstein JA, Wenger TL, Beck AE. *Chimeric Genome-Wide Uniparental Disomy in Two Children with Massive Thymus Enlargement.* ACMG Annual Clinical Genetics Meeting, Baltimore, MD (March 2026).
- **Luz D**, Niehaus A, Bernstein JA. *Aqueductal Stenosis and Hydrocephalus in TUBA1A-Associated Tubulinopathy: Expanding the Genotypic and Phenotypic Spectrum.* ACMG Annual Clinical Genetics Meeting, Los Angeles, CA (March 2025).
- Basharkhah S, **Luz D**, Li M. *Navigating Sotos Syndrome: A Complex Case with Persistent Gastrointestinal and Endocrine Challenges.* Western Society for Pediatric Research, Carmel, CA (Jan 2024).
- **Luz D**. *Implementing Automated Pre-rounding in the General Care Nursery.* Pediatric Scholarly Activity Symposium, Chicago, IL (May 2023).
- **Luz D**. *Optimizing the Transition of Medical School to Pediatric Residency through Epic Electronic Medical Record Bootcamp.* Pediatric Scholarly Activity Symposium, Chicago, IL (May 2023).
- **Luz D**, Basharkhah S, Corrado A, Chung J, Li M. *Severe central apnea in two siblings with ALG8-CDG: A Case Report.* ACMG Annual Clinical Genetics Meeting, Salt Lake City, UT (March 2023).
- **Luz D**, Bruti C. *Chiari I Malformation and HHV-6 Infection Presenting as Ataxia, Chorea, and Aphasia in a 2-year-old Female.* Pediatric Scholarly Activity Symposium, Chicago, IL (May 2022); Illinois Chapter of American Academy of Pediatrics, Chicago, IL (Sept 2022).
- **Luz D**, Hogan K, Gordon L, Li M. *Expanding the Phenotype of LMNB1 Duplication: Three Generation Family with Microcephalic Infant, Asymptomatic Individual, and Eldest Member Without Leukodystrophy.* ACMG Annual Clinical Genetics Meeting, Nashville, TN (March 2022); Pediatric Scholarly Activity Symposium, Chicago, IL (May 2022).

# Danielle Luz

- **Luz D**, Barengo NC. *The association of inadequate sleep with increased risk of being overweight or obese in children aged 10-17 years in the US in 2016*. HWCAM Annual Medical and Graduate Students & Residents Research Symposium, Miami, FL (March 2020).
- **Luz D**, Hart S. *Television's Effect on Math and Reading in Children*. President's Showcase of Research Excellence, Tallahassee, FL (Sept 2014).
- **Luz D**, Hart S. *The Relationship between Screen-Related Activities and Math Outcomes*. Spring Undergraduate Research Symposium, Tallahassee, FL (April 2014).

## PUBLICATIONS

---

- **Luz D**, Hogan K, Gordon L, Roesch R, Li M. *Expanding the phenotype of LMNB1 duplication: A three generation family presenting with microcephaly in the proband, low normal head circumference in a sibling, an asymptomatic individual, and the eldest member without leukodystrophy*. Submitted to *BMC Med Genet*.
- Carter C, **Luz D**, Smith EE, Scott SA, Srinivas NS, Shi RZ, Tise CG. *Transient neonatal zinc deficiency due to maternal variants in SLC30A2: An emerging and atypical candidate gene for maternal carrier screening*. Submitted to *Am J Med Genet A*.
- Li MH, Coleman DL, Hogan K, **Luz D**, Bhandari L, Belnap N, Busa T, Coutton C, Dieterich K, Gorokhova S, Hildebrandt C, Logan R, Mariani M, Morleo M, Nigro V, Pappas J, Rabin R, Schoch K, Selicorni A, Shashi V, Spillmann R, Sullivan J, Tardy C, Undiagnosed Diseases Network, Vergano S, Grill B, Baranano K. *35 Individuals with HUWE1-Associated Neurodevelopmental Disorder (HANDD) and Suggested Clinical Evaluations*. Submitted to *Am J Med Genet A*.

## TEACHING AND CURRICULUM DEVELOPMENT

---

### "Vibe Coding for Clinicians" Workshop | Stanford Medicine

- Created and instructed a technical workshop designed to demystify programming for medical professionals.
- Curriculum covers the use of Generative AI to prototype clinical tools, automate administrative tasks, and statistical data analysis

### Genetics Elective Teaching Assistant | Rush University Medical Center

- Taught first-year medical students core principles of genetics including ethics, pedigree analysis, and journal club reviews.
- Mentored students with interests in the field of medical genetics.

### Pediatric Education Committee Member | Rush University Medical Center

- Assisted with curriculum development for the genetics elective and updated DEI goals for the Mental Health rotation.
- Developed a rotation for Rare Neurogenetic Disorders with Dr. Elizabeth Berry-Kravis.

### "Linear Rash with Travel: Linear Epidermal Nevus" | Pediatric Residency Case Conference

- Case presentation and clinical review presented to the residency program. Chicago, IL (2022).

### "Probiotics as Treatment for Infantile Colic" | Pediatric Residency Evidence-based Medicine Conference

- Evidence-based medicine review presented to residency program. Chicago, IL (March 2021).

## PROFESSIONAL COURSEWORK

---

Epic Smartuser

Epic Physician Builder

Advanced Quality Improvement Course for Pediatrics Residents and Fellows - Stanford Children's Hospital

# Danielle Luz

## HONORS AND AWARDS

---

Rush University Medical Center Good Catch Award - 2022	Chicago, IL
Community Medicine Practicum Final Project Winner - 2019	Miami, FL
FSU Asian American Student Union Member of the Year - 2015	Tallahassee, FL
Mentored Research and Creative Endeavors - 2014	Tallahassee, FL

## AFFILIATIONS

---

American Medical Informatics Association  
American Medical Association  
American Academy of Pediatrics  
American College of Medical Genetics  
Asian Pacific-American Medical Student Association  
East Coast Asian American Student Union  
Health Educated Asian Leaders

# Danielle Luz

## OLD THINGS

### **Bay Area Medical Informatics Society (BAMIS) 2026 Symposium** | *Lead Organizer*

- Organizing the 2026 regional symposium for the Bay Area Medical Informatics Society.
- Responsibilities include coordinating AI governance panels, managing the speaker series, and overseeing the integration of technical workshops.

### **Epic Genomics Module Implementation** | *Subject Matter Expert (SME)*

- Serving as the clinical SME for the institutional implementation of the Epic Genomics module.
- Guiding clinical configuration, workflow integration, and testing to ensure seamless adoption by genetics providers.

### **Vancomycin OPA ("OurPractice Advisory") De-implementation Trial** | *Project Lead*

- Leading a trial focused on the de-implementation of the Vancomycin "OurPractice Advisory" (OPA) to reduce alert burden.
- Developing the data collection and analysis plan for future submission to AMIA and IDWeek.

### **Project GECKO (Genetics Evaluation Tracking Tool)** | *Strategic Lead*

- Leading the measurement of "utility of episodes" and developing dashboards to track genetics evaluations.
- Functioning as the lead for exploring long-term tracking solutions to prevent patients from being lost to follow-up.

### **Specialty Customization Guides (Epic Source of Truth)** | *Project Lead*

- Leading the development of "source of truth" documentation to guide specialty-specific Epic customization.
- Currently executing the pilot guide for the Dermatology department to standardize build requests and optimization.

### **"Clickbusters" Alert Fatigue Initiative** | *Stanford Medicine*

- Led a root cause analysis and system intervention for "Dosing Calculated Weight" (DCW) alerts.
- Successfully reduced provider alert fatigue by optimizing BestPractice Advisories (BPAs) in the NICU and CVICU.

### **Newborn Nursery Handoff Optimization** | *Rush University Medical Center*

- Redesigned the newborn nursery handoff tool to better integrate risk algorithms for early-onset sepsis.
- Improved data capture accuracy and identification speed for at-risk infants.

### **Automated Pre-rounding Implementation** | *Rush University Medical Center*

# Danielle Luz

- Developed and implemented an automated pre-rounding tool for the General Care Nursery to streamline resident workflow and improve patient safety.
- 

## TEACHING & CURRICULUM DEVELOPMENT

### "Vibe Coding for Clinicians" Workshop | *Stanford Medicine*

- Created and instructed a technical workshop designed to demystify programming for medical professionals.
- Curriculum covers foundational Python scripting and the use of Generative AI to prototype clinical tools and automate administrative tasks.

### Genetics Elective Teaching Assistant | *Rush University Medical Center*

- Taught first-year medical students core principles of genetics including ethics, pedigree analysis, and journal club reviews.
- Mentored students with interests in the field of medical genetics.

### Pediatric Education Committee Member | *Rush University Medical Center*

- Assisted with curriculum development for the genetics elective and updated DEI goals for the Mental Health rotation.
  - Developed a rotation for Rare Neurogenetic Disorders with Dr. Elizabeth Berry-Kravis.
- 

## PUBLICATIONS & PRESENTATIONS

### Manuscripts Submitted / Under Review

- **Luz D**, Hogan K, Gordon L, Roesch R, Li M. *Expanding the phenotype of LMNB1 duplication: A three generation family presenting with microcephaly in the proband, low normal head circumference in a sibling, an asymptomatic individual, and the eldest member without leukodystrophy*. Submitted to *BMC Med Genet*.
- Carter C, **Luz D**, Smith EE, Scott SA, Srinivas NS, Shi RZ, Tise CG. *Transient neonatal zinc deficiency due to maternal variants in SLC30A2: An emerging and atypical candidate gene for maternal carrier screening*. Submitted to *Am J Med Genet A*.
- Li MH, Coleman DL, Hogan K, **Luz D**, Bhandari L, Belnap N, Busa T, Coutton C, Dieterich K, Gorokhova S, Hildebrandt C, Logan R, Mariani M, Morleo M, Nigro V, Pappas J, Rabin R, Schoch K, Selicorni A, Shashi V, Spillmann R, Sullivan J, Tardy C, Undiagnosed Diseases Network, Vergano S, Grill B, Baranano K. *35 Individuals with HUWE1-Associated Neurodevelopmental Disorder (HANDD) and Suggested Clinical Evaluations*. Submitted to *Am J Med Genet A*.

### Oral Presentations

- Mohiuddin I, **Luz D**, Vo A, Schoeffler A, Daneshpajouhnejad P, Seddighzadeh B, Colston J, Subbaraj L. **"Vibe Coding for the Modern Clinician"** – AMIA Clinical Informatics Conference, Denver, CO (May 2026).

# Danielle Luz

- **Luz D, Matalon D. "Speaking in Tongues: Mosaic Genome-wide Uniparental Isodisomy as a rare cause of macroglossia"** – Western Society for Pediatric Research, Carmel, CA (Jan 2025).
- **Luz D. "Big Data in Rare Disease: Leveraging EHR Analytics to Improve Genetic Diagnosis"** – Stanford Medical Genetics Grand Rounds, Palo Alto, CA (Dec 2024).
- **Basharkhah S, Luz D, Li M. "Navigating Sotos Syndrome: A Complex Case with Persistent Gastrointestinal Challenges"** – Western Society for Pediatric Research, Carmel, CA (Jan 2024).
- **Luz D. "Vaping in Adolescents"** – RUMC Primary Care Advocacy Conference, Chicago, IL (March 2022).

## Published Abstracts

- Carter C, **Luz D**, Smith EE, Scott SA, Srinivas NS, Shi RZ, Tise CG. *Transient neonatal zinc deficiency due to maternal variants in SLC30A2: an ideal candidate for carrier screening with an unusual inheritance pattern.* J Investig Med 2026; 74(1). [Selected for Oral Presentation]
- **Luz D, Matalon D. Speaking in Tongues: Mosaic Genome-wide Uniparental Isodisomy as a rare cause of Macroglossia. J Investig Med 2025; 73: 538.**
- **Basharkhah S, Luz D, Li M. Navigating Sotos Syndrome. J Investig Med 2024; 72: 334.**

## Posters

- Bright HB, Paschal CR, Lenahan AL III, **Luz D**, Sikes MC, Kapur R, Bernstein JA, Wenger TL, Beck AE. *Chimeric Genome-Wide Uniparental Disomy in Two Children with Massive Thymus Enlargement.* ACMG Annual Clinical Genetics Meeting, Baltimore, MD (March 2026).
- **Luz D, Niehaus A, Bernstein JA. Aqueductal Stenosis and Hydrocephalus in TUBA1A-Associated Tubulinopathy: Expanding the Genotypic and Phenotypic Spectrum. ACMG Annual Clinical Genetics Meeting, Los Angeles, CA (March 2025).**
- **Luz D, Basharkhah S, Corrado A, Chung J, Li M. Severe central apnea in two siblings with ALG8-CDG: A Case Report. ACMG Annual Clinical Genetics Meeting, Salt Lake City, UT (March 2023).**
- **Luz D, [Add Co-Authors]. Implementing Automated Pre-rounding in the General Care Nursery. Pediatric Scholarly Activity Symposium, Rush University Medical Center, Chicago, IL (May 2023).**
- **Luz D, Hogan K, Gordon L, Li M. Expanding the Phenotype of LMNB1 Duplication: Three Generation Family with Microcephalic Infant, Asymptomatic Individual, and Eldest Member Without Leukodystrophy. ACMG Annual Clinical Genetics Meeting, Nashville, TN (March 2022).**

---

## HONORS & AWARDS

- **Rush University Medical Center Good Catch Award (2022)**
- **Community Medicine Practicum Final Project Winner (2019)**
- **FSU Asian American Student Union Member of the Year (2015)**

## RESEARCH INTERESTS/ ONGOING PROJECTS

---

### Genetics

- Utilizing EHR Reminder/Alert Systems to optimize updating phenotypic information on infants with previous rapid genome sequencing
- Improving diagnostic yield for rare disease by querying multi-institutional self-service data exploration tools
- Optimizing EHR tools for Patient Tracking in a large Academic center

# Danielle Luz

## Clinical Informatics

- Ambient Listening support for physician documentation
- EHR Efficiency Metrics as measurement of physician wellness/burnout
- Integrating Clinical Decision Making tools with genetic testing
- Customization tools to streamline chart review/pre-rounding

## WORK EXPERIENCE

---

### Genetics Elective

Chicago, IL

*Teaching Assistant*

December 2021 - present

- Taught first year medical students about core principles in the field of genetics: Ethics, Journal Club, Pedigrees, Geneticist for a Day with Dr. Mindy Li MD
- Helped construct presentations
- Mentored first year medical students with interests in genetics

### Pediatric Education Committee

Chicago, IL

*Member*

August 2021 - present

- Assisted with curriculum development for the genetics elective
- updated Diversity Equity and Inclusion Goals for the Mental Health rotation
- Developed a rotation for Rare Neurogenetic Disorders with Dr. Elizabeth Berry-Kravis MD PhD

### Pediatric Interest Group

Miami, FL

*President*

August 2017-May 2018

- Organized events to provide medical students an opportunity to learn more various pediatric topics and specialties
- Collaborated with multiple interest groups to develop a donation drive for underprivileged children
- Developed hands-on workshops for all medical students to practice assessing developmental milestone

# Danielle Luz

## Danielle Luz, MD

**Statement of Professional Interests** As a Pediatric Medical Geneticist applying for the Clinician Educator line, my career is defined by a commitment to high-volume, precision clinical care and the development of educational frameworks that empower the next generation of physicians. I view the electronic health record (EHR) not just as a documentation tool, but as a critical pedagogical instrument and a driver of clinical quality. My professional focus is to combine excellence in diagnosing rare metabolic and cytogenetic disorders with leadership in clinical informatics education and workflow optimization.

**Proportionality of Effort (FTE)** (*Note: You should adjust this based on your understanding of the job description. If you don't know the exact numbers, describe the balance, e.g., "I anticipate dedicating the majority of my effort to clinical care and bedside teaching, with protected time for informatics scholarship..."*) I anticipate my effort will be distributed primarily in clinical care and teaching (~X% FTE), with the remainder dedicated to scholarship and administrative leadership in informatics (~Y% FTE). This balance reflects my dedication to active clinical service as the foundation for my educational and systems-improvement work.

**Clinical Care and Quality Improvement** My clinical practice is rooted in the management of complex genetic conditions, serving as a consultant for high-acuity services including the NICU and CVICU. In the Clinician Educator role, I aim to lead quality improvement (QI) initiatives that directly impact patient safety. As the Project Lead for the "Clickbusters" Alert Fatigue Initiative, I successfully reduced provider alert burden by optimizing Best Practice Advisories (BPAs). This experience has prepared me to lead similar QI projects at Stanford, ensuring that our clinical systems support, rather than hinder, the delivery of exceptional patient care.

**Teaching, Mentoring, and Curriculum Development** My teaching philosophy centers on demystifying complex systems—whether genomic or digital—for trainees. I have a strong track record of **program development**, exemplified by my creation of the "Vibe Coding for Clinicians" workshop. Recognizing a gap in medical education, I designed this curriculum to teach physicians Python scripting and Generative AI prototyping. This initiative demonstrates my ability to identify educational needs and create novel content that prepares trainees for the future of medicine.

At the bedside, I have served as a Teaching Assistant for the Genetics Elective, mentoring first-year medical students in ethics and pedigree analysis. I look forward to expanding this role, specifically by developing a "Clinical Informatics for Geneticists" rotation that provides fellows with the technical competencies required for modern practice.

**Scholarship and Regional Contributions** My scholarship focuses on the intersection of clinical phenotype expansion and informatics. I have disseminated my work through oral presentations at the Western Medical Research Conference and the AMIA Clinical Informatics Conference. Additionally, I serve as the **Lead Organizer for the Bay Area Medical Informatics Society (BAMIS) 2026 Symposium**. This regional leadership role allows me

# Danielle Luz

to foster collaboration across institutions and contributes to the broader academic community in the Bay Area, a key component of my growth as a Clinician Educator.

**Future Directions** I am eager to bring my dual expertise in Genetics and Informatics to the Clinician Educator track at Stanford. I plan to establish a clinical practice that models efficiency and diagnostic precision, while simultaneously building educational programs that equip our trainees to be leaders in a data-driven healthcare environment.