

# Mary Angela Madden

Mary.madden@stryker.com

574-344-1033

## Education

University of Southern California

Bachelor of Science, Biomedical Engineering, **Class of 2021**

Skills: Agile, SQL, MATLAB, QMS Software, Microsoft Excel, Professional Writing, Python, Solidworks, Spanish

---

## Experience

### **Health Economic Outcome Research and Reimbursement Analyst Stryker Corporation**

**April 2021 -Current**

- Conduct research for economic and clinical outcome analyses including: collaborating with stakeholders to gather information, applying basic economic evaluations standards, cost and need forecasting, producing reports to communicate results.
- Support ongoing studies with data science tasks to include: data entry, data validation/verification, data manipulation, and data analysis.
- Conduct literature reviews and support efforts to build economic models, such as cost-effectiveness and cost-comparison models, as well as accompanying tools and methods to communicate results

### **Biomedical Engineer Intern**

#### **Magnamosis Inc., Surgical Device Start Up**

**February 2020 -August 2020**

- Focused on PMA process for (Humanitarian) Medical Device, Class II Device in surgical tools
- Researched, installed, and implemented a Quality Management Systems (QMS) Software
- Managed and maintained FDA and ISO documentation such as FMEA, Design Control
- Worked in the lab collecting force profiling, 3D printings, biocompatibility soaks
- Wrote technical writings such as Device Description, Supplier Protocols and Evaluations, DDP

### **Research Intern**

**June 2019-December 2019**

#### **University of Notre Dame, American Indian Catholic School Network**

- Lead research intern, Native population suicide study from medical perspective.
- Data entry on access to mental health care options and suicide statistics.
- Develop healthcare policy plan and educational materials on risk factors and prevention in mental health.
- Plan and administer three conferences, update and maintain websites

### **Delegate, Researcher,**

**May 2019-June 2019**

#### **World Health Organization, Geneva, Switzerland and Uganda**

- Conducted biotech research on sustainable biotech devices to address public health issues in low income countries.
  - Partnered with Global Alliance for Vaccines and Immunizations (GAVI).
  - Interfaced with world health ministers to understand country-specific health challenges.
  - Conducted field research for 3 weeks in Uganda with focus on maternal-child health and sustainable Biotech.
  - Generated solutions with international biotech innovators to address Ugandan health epidemics.
- 

## Projects

### **Project Creator, Manager**

**July 2019- present**

#### **Medical Supply Facilitator with Health Reps Uganda,**

- Ship medical supplies to under resourced hospitals and rural clinics in Central and Northern Uganda.
- Created partnership with USC Hospital and health care providers in Uganda that has transported of over \$5,000 of medical supplies so far. This work continues.

### **Director, Assistant Co-Founder**

**May 2016-May 2018**

#### **Together for the Long Run**

- Northern Indiana Special Olympics event. Non-for-Profit, managed 200 athletes and 500 volunteers. Worked with local business and district administrators. Raised over \$40,000 through one event.
- 

## Activities and Leadership

**Vice President**, USC MedRec, Medical Supply Recycling Club;

**Social Justice Chair**, and **Executive Board Member**, USC Caruso Catholic Center.

- Manage and participate in volunteer projects including Homeless Ministry, Food Bank, Mission Trips, Prison Ministry,

**Tutor**, Center for Engineering Diversity

**Ambassador/Member**, GlobeMed. National Society of Black Engineers

*References available upon request.*