

# Joanna A. Sanchez

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## EDUCATION

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**Waubonsee Community College**  
*Associate in Applied Science*

**August 2017 - August 2022**

**East Aurora High School**  
*Graduated with honors*

**August 2013 - May 2017**

## PROFESSIONAL APPOINTMENT

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**Academic Support Paraprofessional Tutor (biology/anatomy)**  
*Waubonsee Community College*

**Spring 2023**

- Providing subject matter expertise and serving as models for students in the techniques, strategies, attitudes, and beliefs of successful learners
- Reviewing class material, discussing problems, reviewing tests, or working on solutions to problems
- Facilitating individual and small group tutoring sessions, and classroom visits

## RESEARCH EXPERIENCE

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**Student Researcher at Waubonsee Community College**  
Advisor: Professor Sheela Vemu

**Fall 2022 - Present**

- Leading the study of the immunogenic regions on the spike glycoproteins of the SARS-CoV-2 variants using the web-based bioinformatics platform Immune Epitope Database (IEDB)
- Optimizing the target antigens' position by developing python scripts, utilizing immune epitope prediction and analysis codes, statistical interpretation of data and creating educational materials
- Mentoring students for their honors project which uses IEDB  
*Jatniel Gomez and Chris Salgado (Students at Waubonsee Community College)*

## HONORS AND AWARDS

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**NIIMBL eXperience** (selected for summer program)  
*The National Institute in Manufacturing Biopharmaceuticals*

**Summer 2023**

**The John J. Swalec, Jr. President's Achievement Award**  
*Waubonsee Community College*

**2019**

**Phenomenal Woman Award**  
*"Scheiketa Hart-Burns" Boy's II MEN*

**2017**

**Junior ROTC Award of Merit**  
*The Military Order of the World Wars*

**2017**

## CERTIFICATE

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**Junior Deputy Certificate**  
*Kane County Sheriff's Office*

**Summer 2016**

## CONFERENCES

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Mapping Immunogenic Regions in SARS-CoV-2 Variants to Understand PCR Assay Design Using Bioinformatics Tools

*Student poster session at Illinois Wastewater Professionals Conference - Springfield, IL*

**Apr 10, 2023**

## ACTIVITIES

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### Academic

**Student organization MEChA / President, Vice-president, Secretary** **2019 - 2021**

*Waubonsee Community College*

- Opened a chapter at Waubonsee that advocates for Latino students on campus
- Provided resources and support for students' academic success

**Education Awareness Subteam / Student Leader** **2017 - 2018**

- Working in ensuring Waubonsee Community College took proactive action to protect DACA/Undocumented students
- Provided interactive ally training for employees at the college, and students

### Community Services

**The Sideline Project / Co-founder** **2019 - 2021**

- Conducted community events on mental health, academic success, and overall well-being
- Collected data on available scholarships and opportunities for students

**Student Diversity Committee / Student Leader** **2019 - 2020**

*Waubonsee Community College*

- Curating ideas to improve students experience
- Assisted in organizing student events for Latinx Heritage month

## OUTREACH

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**Good Morning Aurora** **2020**

- Served as a special guest to speak about my advocacy work and share my story

**Supporting DACA and Undocumented Students Panelist** **2018**

*Oswego High School*

- Served as a panelist for high school educators to provide guidance in supporting DACA/Undocumented students

## SKILLS

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### Programs of Use

Python  
C++  
HTML  
Git  
MATLAB  
Mathematica  
Visual Studio

### Languages

English - Native / Bilingual  
Spanish - Native / Bilingual