

# JUSTIN WANG

10525 Willow Oak Ct • Wellington, FL 33414 • (305) 304-8145 Email: [justin.wang0@outlook.com](mailto:justin.wang0@outlook.com)

---

## EDUCATION

---

### SUNCOAST COMMUNITY HIGH SCHOOL

*International Baccalaureate*

AUG. 2015 – PRESENT

*Riviera Beach, FL, USA*

- **Major:** (CS-IB) Computer Science & International Baccalaureate Program
- GPA: 3.9                  HPA: 5.0                  RANK: 41 / 365                  ACT: 36
- Volunteer Hours: 505

## TECHNICAL SKILLS

---

- **Certification:** MTA: Database Fundamentals
- **Languages:** Java, Python, MATLAB, SQL, C++

## EXPERIENCES

---

### SOUTH FLORIDA ENGINEERING & CONSULTING LLC.

*Intern – Software Engineer*

AUG. 2018 – CURRENT

*Lake Worth, FL, USA*

- Working on Python backend of a cloud-based water level prediction model, including input / output parsing, data interpolation, and dynamic linking.
- Frontend work included website management through Django for client-side cloud computing access.

### FLORIDA ATLANTIC UNIVERSITY

*Research Intern – College of Engineering*

JUNE. 2018 – AUG. 2018

*Boca Raton, FL, USA*

- Learned the basis of deep neural networks and machine learning applying CNNs, LSTMs, FFNs, SVMs, and KNNs.
- Did focused oceanography work on forecasting through data analysis and LSTM regression in the Gulf of Mexico.
- Proposed a novel machine vision algorithm through a multi-model ensemble approach.

### SUNCOAST COMPUTER CLUB

*Club President*

AUG. 2017 – PRESENT

*Riviera Beach, FL, USA*

- Taught peers competitive programming from foundational logic to complex dynamic programming and graph theory
- Organized several trips to academic competitions on the state and national level

# JUSTIN WANG

10525 Willow Oak Ct • Wellington, FL 33414 • (305) 304-8145 Email: [justin.wang0@outlook.com](mailto:justin.wang0@outlook.com)

---

## NATIONAL MATH HONOR SOCIETY

*Algebra II Competitive Coach*

AUG. 2016 – PRESENT

*Riviera Beach, FL, USA*

- Coached Suncoast's competitive Algebra II team 2 hours a week throughout the year
- Prepared lesson plans and constructed comprehensive timelines in preparation for competitions
- Trained teams that competed in both state-wide and national-level competitions

## AWARDS RECEIVED & COMPETITIONS

---

- **COMPUTER SCIENCE**
  - 2018 United States Computing Olympiad (USACO) – Top 400 nationwide
  - 2018 HPE CodeWars Houston Texas – Nvc. Division 1st place
  - 2018 MITRE CTF Cyber Challenge – 6<sup>th</sup> place
  - 2018 ACM FIU Annual Programming Competition – 4<sup>th</sup> place
  - 2018 ACM Stetson Annual Programming Competition – 4<sup>th</sup> place
- **MATHEMATICS**
  - 2018 American Mathematics Competition (AMC) – Top 2.5% nationwide
  - National Math Honor Society 2017 National Convention – Integration – 16<sup>th</sup> place

## PUBLICATIONS

---

- **Wang, J. L.**, Ibrahim, A. K., Zhuang, H., Ali, A. M., and Li, A. Y., “A Study on Automatic Detection of IDC Breast Cancer with Convolutional Neural Networks,” *Proc. IEEE International Conf. on Computational Science and Computational Intelligence*, 2018.
- **Wang, J. L.**, Li, A. Y., Huang, M., Ibrahim, A. K., Zhuang, H., and Ali, A. M., “Classification of White Blood Cells with PatternNet-fused Ensemble of Convolutional Neural Networks (PECNN),” *Proc. IEEE International Sym. on Signal Processing and Information Technology*, 2018.
- Ali, A. M., Ibrahim, A. K., Zhuang, H., and **Wang, J. L.**, “Preliminary Results of Forecasting of the Loop Current System in Gulf of Mexico Using Robust Principal Component Analysis,” *Proc. IEEE International Sym. on Signal Processing and Information Technology*, 2018.
- **Wang, J. L.**, Zhuang, H., Ibrahim, A. K., Cherubin, L., and Ali, A. M., “Medium-Term Forecasting of the LCS and its Eddy Formations in GoM with a Divide-and-Conquer Machine Learning Approach,” *Journal of Geophysical Research: Oceans*, 2018, in review.