



# JI YEOW LAW, M.S., PE

## ENVIRONMENTAL (AGRICULTURAL / CIVIL) ENGINEER



### AREAS OF INTEREST & EXPERTISE

- Water resources management
- Water quality monitoring
- Water/Wastewater treatment
- Hydrology and hydraulic modeling
- Engineering cost analysis
- Big data management

### SUMMARY

- 5+ years of contribution in environmental monitoring/remediation and water treatment design.
- Extensive consulting and R&D experience serving government, non-profit, and private clients.
- Collaborative team player/leader with a proven record in delivering solutions with peers within and outside the organization.
- Passionate to make impacts in the communities by providing, maintaining, and restoring clean water supply and environment.

### EXPERIENCE / ACHIEVEMENTS

### EDUCATION / CERTIFICATION

#### Iowa State University

- Master of Science, 2017

Co-majors: Agricultural & Biosystems

Engineering; Civil Engineering

GPA: 3.92

- Bachelor of Science, 2016

Major: Agricultural Engineering

Minor: Agribusiness

GPA: 3.76

#### Iowa Engineering and Land Surveying Examining Board

- Professional Engineer

### SKILLS

- Project Management
- Water Treatment Design
- Field Survey and Instrumentation
- Data Management and Analysis
- Technical Writing
- Client and Public Engagement

### SOFTWARE / HARDWARE

- Word, Excel, PowerPoint, Project
- VBA, Python
- Hydrus 1-D, BATHTUB, WEPP, DRAINMOD
- Civil 3D, AutoCAD, ArcGIS, SolidWorks, Autodesk
- Trimble RTK GPS, GNSS, Transit Level
- JMP, SAS, OriginLab

#### Iowa State University

##### Engineer II (*greater project management roles*)

##### Engineer I

Ames, Iowa

Jan 2022 – present

March 2018 – Dec 2021

- Consulting – delivered practical, cost-effective solutions to clients.
  - ❖ Developed watershed management plan to improve recreational lake water quality.
  - ❖ Modeled pollutant transport to calculate waste load allocations (TMDLs).
  - ❖ Designed drainage water treatments systems and oversaw construction.
- R&D – improved water management/remediation technologies.
  - ❖ Co-led projects to obtain funding and execute innovative ideas.
  - ❖ Collaborated with multidisciplinary peers to address higher-level issues.
  - ❖ Prepared work plans and SOPs to ensure consistent, high-quality work.
  - ❖ Installed, maintained, and operated water monitoring stations and sensors.
  - ❖ Automated data management and analysis to improve productivity.
  - ❖ Conducted techno economic analysis to optimize costs.
- Developed reports and refereed articles.
- Managed and forecasted expenses to track/allocate project budgets.
- Mentored and trained new employees for career progression.

#### Iowa Soybean Association

##### Research Analyst Intern

Ankeny, Iowa

Feb 2018 – March 2018

- Constructed hydrology models for estimating flow and nitrogen loading from tile-drained landscapes and characterizing the internal hydrology of denitrification bioreactors.

#### Iowa State University

##### Graduate Research Assistant

Ames, Iowa

Sept 2015 – Dec 2017

- Led the design and evaluation of a modified denitrification bioreactor system, and successfully demonstrated improved system performance.