(515) 708-2426
jiyeowlaw@gmail.com
Ames, Iowa 50014
English (primary), Chinese, Malay

EDUCATION / CERTIFICATION

Iowa State University

- Master of Science, 2015 – 2017
  GPA 3.92
  - ❖ Co-major: Agricultural & Biosystems Engineering (Land and Water Resources focus)
  - ❖ Co-major: Civil Engineering (Environmental Engineering focus)
- Bachelor of Science, 2013 – 2016
  GPA 3.76
  - ❖ Major: Agricultural Engineering (Land and Water Resources focus)
  - ❖ Minor: Agribusiness

National Council of Examiners for Engineering and Surveying

- Engineer in Training, 2016

EXPERTISE / SKILLS

- Project Management
- Field Survey and Instrumentation
- Data Management and Analysis
- Technical Writing
- Client and Public Engagement
- Environmental Policies

SOFTWARE / HARDWARE

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

JI YEOW LAW, M.S., EIT

AGRICULTURAL / CIVIL (ENVIRONMENTAL) ENGINEER

AREAS OF INTEREST

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

SUMMARY

- Motivated environmental engineer at Iowa State University with 5+ years of contribution in environmental monitoring and remediation
- Extensive critical thinking (R&D) and problem-solving (consulting) experience serving government, non-profit, and private clients
- Collaborative team player/leader with a proven record in delivering solutions as a team and partnering with peers across organization
- Passionate to make impacts in the communities by providing, maintaining, and restoring clean water supply and environment
- Working towards Professional Engineer License in 2022

EXPERIENCE / ACHIEVEMENTS

Iowa State University — **Ames, Iowa**
Engineer II — **Jan 2022 – present**
Engineer I — **March 2018 – Dec 2021**

- Provide consulting services to address environmental issues using practical, cost-effective approaches
  - ❖ Collect water quantity/quality and topographic data
  - ❖ Model pollutant transport to calculate waste load allocations (TMDLs)
- Develop and demonstrate innovative water management/remediation technologies to improve performance and reduce cost
  - ❖ Prepare research proposals for funding to execute ideas and deliver results
  - ❖ Collaborate with multi-disciplinary peers to address higher-level issues
- Install, maintain, and operate water monitoring stations and sensors
- Prepare work plans and SOPs to ensure high quality and consistent work
- Automate data management and analysis to improve efficiency
- Conduct engineering cost analysis to examine and improve cost-efficiency
- Develop watershed management plans, reports, and refereed articles
- Support OSHA compliance training to ensure safe work environments
- Manage and forecast expenses to track and allocate project resources
- Mentor and train new employees for career progression

Iowa Soybean Association — **Ankeny, Iowa**
Research Analyst Intern — **Feb 2018 – March 2018**

- Used H&H models to estimate nitrogen loading and reduction across Iowa
  - ❖ Computed surface/subsurface nitrogen loads in tile-drained landscapes
  - ❖ Computed flows and nitrogen load reductions of bioreactors

Iowa State University — **Ames, Iowa**
Graduate Research Assistant — **Sept 2015 – Dec 2017**

- Developed new design of bioreactors with electrical stimulation, and successfully demonstrated higher denitrification rates
  - ❖ Delivered engineering drawing, cost analysis, and refereed articles