JI YEOW LAW, M.S., EIT
AGRICULTURAL / CIVIL (ENVIRONMENTAL) ENGINEER

- Ames, Iowa 50014
- (515) 708-2426
- jiyeowlaw@gmail.com
- https://jiyeow.github.io/
- 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

Iowa Engineering and Land Surveying Examining Board, F19474
- 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

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 problem-solving (consulting) and critical thinking (R&D) 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 within and outside the 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
- Consulting – delivered practical, cost-effective solutions to clients
  - ❖ Collected water quantity/quality and topographic data
  - ❖ Modeled pollutant transport to calculate waste load allocations (TMDLs)
- R&D – advanced 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
- Managed and forecasted expenses to track/allocate project budgets
- Developed watershed management plans, reports, and refereed articles
- Supported OSHA compliance training to ensure safe work environments
- Mentored and trained 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 in tile-drained landscapes
- Built a hydraulic retention time model using Excel VBA to compute flows and nitrogen load reductions of bioreactors

Iowa State University — Ames, Iowa
Graduate Research Assistant — Sept 2015 – Dec 2017
- Led the design process to develop bioreactors with electrical stimulation, and successfully demonstrated improved denitrification rates
  - ❖ Published engineering drawing, cost analysis, and refereed articles