

Grant J. Goedjen

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Education

Doctor of Philosophy, Civil & Environmental Engineering

University of Minnesota, Minneapolis, Minnesota

Ongoing

Master of Environmental Engineering

Texas Tech University, Lubbock, Texas

May 2020

Bachelor of Science, Environmental Engineering

Texas Tech University, Lubbock, Texas

May 2020

Minors: Bioengineering, Civil Engineering, Biology, & Mathematics.

Achievements: Presidents List (2017, 2019, 2020), Deans List (2015, 2017, 2019, 2020)

Certifications

Texas: Engineer in Training, **EIT No. 71799**

Minnesota: Engineer in Training, **EIT No. 160572**

Skills

- **Knowledge Base:** H&H Analyses & Design, Water Resources, Water & Wastewater Treatment, Biological System Design, Environmental System Assessment & Design, Remediation Design, Contaminant Fate & Transport, Environmental Toxicology.
- **Drafting:** MicroStation Suite, Openroads Suite, AutoCAD Suite, AutoCAD Civil 3D, Fusion 360, Microsoft Suite, LaTeX.
- **GIS:** ArcGIS Suite, QGIS.
- **Modeling Software:** ICPR, HY-8, HEC-HMS, HEC-RAS, EPA-NET, EPA SWMM, EQC, ACE, GW Vistas, MODFLOW, HydroCAD, InfraWorks, R.
- **Programming Languages:** R, MATLAB, Python, Microsoft Excel VBA.

Experience

Doctoral Researcher: University of Minnesota, Minneapolis Mn

Sept 2020 - Current

- Designed and conducted experimental methods for advanced detection of contaminants in surface and ground water systems.
- Coordinated sampling and QA/QC plans for intra-state sample collection with state, local, and university organizations.
- Coded statistical analysis and data visualization programs using R, Python, and Microsoft Excel.
- Managed project git repositories and oversaw data storage plans.
- Oversaw field investigations for surface and groundwater sampling.
- Developed analytical methods for the quantification of micropollutants for the St. Paul Ozonation Pilot Water Treatment Plant

Engineering Staff: Harkins Engineering, Remote

2020

- Tele-design and collaboration in water resources and water / wastewater engineering.
- Drafting in MicroStation v8i and AutoCAD Civil 3d.
- Residential and commercial water resource design & development.
- GIS support and drafting using ArcGIS suite and QGIS.

Engineering Intern: Texas Dept. of Transportation, District Design Office, Lubbock Tx

Feb 2019 – Aug 2020

- Drafting, analysis, and design in Bentley MicroStation, Openroads, SignCAD, ArcGIS suite, and Microsoft Excel.
- Hydraulic modeling and design in HEC-RAS, HY-8, HydroCAD, and HEC-HMS.
- Presentation of proposed design and materials in public town hall meetings.
- Environmental protection, EPIC, and SW3P design, implementation, oversight, and documentation.
- Training of engineering and design staff on operation of modeling software and ArcGIS.

Civil Engineering Student: Parkhill, Smith, & Cooper, Lubbock Tx

April 2018 – Feb 2019

- Hydraulic systems design using ICPR, SWMM, HEC-HMS, HEC-RAS.
- 2D and 3D design, surface development, manipulation, and drafting in AutoCAD, AutoCAD Civil 3D.

University Housing: Texas Tech University, Lubbock Tx

Aug 2017 – May 2018

Graduate Research Assistant: Texas Tech University, Lubbock, Tx

May 2016 – Jan 2020

- Conducted independent research under Dr. Audra Morse (Wastewater treatment), Dr. Theodore Cleveland & Dr. William Asquith (Computational hydraulics & hydrology), and Dr. Siva Vanapalli (Toxicology and Biomicrofluidics).
- Peer reviewed proposed research papers for Water Environmental Research academic journal.
- Collaboration with the City of Lubbock, County of Lubbock, Partnering Universities, TxDOT, and the USGS.

International Experience: Tokyo, Japan

Summer 2018

- Presented academic research at the University of Japan & Tokyo Tech University.
- Attended a seminar on the practical applications of supercomputer modeling in civil engineering.
- Engaged in an industrial science conference at the University of Tokyo Institute of Industrial Science.

Community Involvement

Society of Environmental Professional, *President*

TTU NASA Rasc-AI team, *LaTeX Coder & Editor*

TTU WEAT Design Team, *Design Engineer*

Reeds Ranch & Rescue, *Animal Rehabilitation Specialist*

LYFE Mentoring Program, *Mentor*

American Society of Civil Engineers, *Member*

Texas Society of Professional Engineers, *Member*

Men of STEM Learning Community, *Advisor*