

HARRIS COLIN BIENN, B.S. Eng.

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CAREER SUMMARY

Highly qualified leader with ten years of experience in scientific research fields. Disciplined problem solver with excellent communication and analytical skills.

EDUCATION AND POSITIONS

- 2013 - 2018 Bachelor of Science in Environmental Engineering
Louisiana State University, Baton Rouge, Louisiana
Thesis: Assessing the Impact of Urban Flooding on Vulnerable Populations in New Orleans using the Internet of Things
- 2010-2011 Honors Graduate, United States Marine Corps Leadership Academy
Infantry Squad Leader Course, Camp Pendleton, California
Curriculum focus: Leadership and poise during high stress situations. Emphasis on dynamic problem solving.
- 2014 - Present Geospatial Analysis Community of Practice Lead, Research Scientist, Research Associate, Research Intern
The Water Institute of the Gulf, Baton Rouge, Louisiana
Role requirements: Geospatial analysis, research, and narrative building for scientific communication. Administration of web GIS platforms and quality control of cartographic products.
- 2012 - 2013 Process Technician
Jacobs Engineering, Exxon Refinery Alliance Group, Baton Rouge, Louisiana
Role requirements: Intensive analytical research on major turnaround projects for Exxon. Upstream and downstream communication and ideation.
- 2008-2012 United State Marine Corps: Infantry Section Leader, Weapons Platoon Sergeant
3rd Battalion, 4th Marine Regiment, Twentynine Palms, California
Role requirements: Management and control of stressful situations. Command of section (15+ Marines) and platoon (45+ Marines) during consecutive combat deployments to Afghanistan.

SKILLS RESUME

- Technical:
- Software: Extensive: ArcGIS Enterprise, ArcGIS Pro, ArcMap, QGIS
Proficient: Adobe Creative Suite, jamovi, MapInfo, MATLAB, OpenStreetMap, RStudio, SPSS
 - Programming Languages: Extensive: SQL, Python
Proficient: MATLAB, R
 - Operating Systems: Extensive: macOS, Windows
 - Modeling: Extensive: ArcGIS Model Builder, HAZUS
Proficient: HEC-GeoHMS, HEC-RAS, SWMM
- Methodological: Cartographic development, geodata processing and visualization, hazard assessment, scientific graphic development, social vulnerability assessment, statistical analysis
- Interpersonal: Autodidactic and detail-orientated team player. Dedicated worker willing to share and teach associates. Disciplined problem solver with limited need for supervision.

PEER-REVIEWED PUBLICATIONS

- Kiskaddon, E., **Bienn, H.**, Hemmerling, S., Dalyander, S., Grismore, A., Parfait, J., Miner, M., et al. (2022). Supporting habitat restoration in the northern Gulf of Mexico through synthesis of data on multiple and interacting benefits and stressors. *Journal of Environmental Management*, 318, 115589. <https://doi.org/10.1016/j.jenvman.2022.115589>
- Baustian, M., Jung, H., **Bienn, H.**, Barra, M., Hemmerling, S., Wang, Y., White, E., & Meselhe, E. (2020). Engaging coastal community members about natural and nature-based solutions to assess their ecosystem function. *Ecological Engineering: X*, 5, 100015. <https://doi.org/10.1016/j.ecoena.2019.100015>

- Hemmerling, S., Barra, M., **Bienn, H.**, Baustian, M., Jung, H., Meselhe, E., Wang, Y., & White, E. (2020). Elevating local knowledge through participatory modeling: active community engagement in restoration planning in coastal Louisiana. *Journal of Geographical Systems*, 22(2), 241–266. <https://doi.org/10.1007/s10109-019-00313-2>
- Hemmerling, S., Carruthers, T., Hijuelos, A., & **Bienn, H.** (2020). Double exposure and dynamic vulnerability: Assessing economic well-being, ecological change and the development of the oil and gas industry in coastal Louisiana. *Shore & Beach*, 72–82. <https://doi.org/10.34237/1008819>
- Meselhe, E., Wang, Y., White, E., Jung, H., Baustian, M. M., Hemmerling, S., Barra, M., & **Bienn, H.** (2020). Knowledge-based predictive tools to assess effectiveness of natural and nature-based Solutions for coastal restoration and protection planning. *Journal of Hydraulic Engineering*, 146(2), 05019007. [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001659](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001659)
- Moss, L., Carruthers, T., **Bienn, H.**, McInnis, A., & Dausman, A. (2020). Gulf-wide data synthesis for restoration planning: Utility and limitations. *Shore & Beach*, 23–33. <https://doi.org/10.34237/1008813>
- Baustian, M., Clark, F., Jerabek, A., Wang, Y., **Bienn, H.**, & White, E. (2018). Modeling current and future freshwater inflow needs of a subtropical estuary to manage and maintain forested wetland ecological conditions. *Ecological Indicators*, 85, 791–807. <https://doi.org/10.1016/j.ecolind.2017.10.005>

PRESENTATIONS

- [Oral] **Bienn, H.**, Franklin, E., Heuisler, R., Philley, N. (2018). “Assessing the Impact of Urban Flooding on Vulnerable Populations in New Orleans using the Internet of Things”. 28th WERC Environmental Design Competition, Las Cruces, New Mexico
- [Poster] **Bienn, H.**, Cook S., Dugas, K., Franklin, E., Heuisler, R., Philley, N., Weyenberg, B. (2018). “Assessing the Impact of Urban Flooding on Vulnerable Populations in New Orleans using the Internet of Things”. 28th WERC Environmental Design Competition, Las Cruces, New Mexico

AWARDS AND HONORS

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| 2021 | Best Paper Award 2020, Journal of Geographic Systems, “Elevating local knowledge through participatory modeling: active community engagement in restoration planning in coastal Louisiana” |
| 2018 | Judges' Choice, 28th WERC Environmental Design Competition, “Assessing the Impact of Urban Flooding on Vulnerable Populations in New Orleans using the Internet of Things” |
| 2013 - 2018 | Recipient of Post 9/11 G.I. Bill Scholarship |
| 2012 | Honorable Discharge from the United States Marine Corps |
| 2011 | Navy Achievement Medal, Good Conduct Medal |
| 2010 | Combat Acton Ribbon, Infantry Squad Leader Course Honor Graduate, Certificate of Commendation |
| 2009 - 2011 | Afghanistan Campaign Medals in support of Operation Enduring Freedom |
| 2009 | Certificate of Commendation, Meritorious Mast |
| 2008 - 2011 | Meritorious promotions: Private First Class, Corporal, and Sergeant (Combat Meritorious) |

REFERENCES

- Scott A. Hemmerling, Ph.D. | (225) 228-2101 | shemmerling@thewaterinstitute.org
 Director of Human Dimensions, The Water Institute of the Gulf, Baton Rouge, Louisiana.
- Clint Willson, Ph.D., PE. | (225) 578-8672 | cwillson@lsu.edu
 Director, LSU Center for River Studies, Baton Rouge, Louisiana.
 Mike N. Dooley, P.E. Professor, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana.
- John Pardue, Ph.D. | (225) 578-8661 | jpardue@lsu.edu
 Elizabeth Howell Stewart Endowed Professor, Environmental Engineering Undergraduate Program Coordinator, Department of Civil and Environmental Engineering, Louisiana State University. Baton Rouge, Louisiana.

EXTRACURRICULAR ACTIVITIES

Avid outdoorsman, backpacker and fisherman. Multiple treks throughout the Lower Appalachians, the Sierra Nevada, and Mojave National Preserve.

Experienced technical diver with more than 100 hours underwater. Capable of underwater surveying and conduct of search and rescue activities.

Volunteer for Habitat for Humanity, The Nature Conservancy, and the Greater Baton Rouge Food Bank.