

Ryan R. Noe

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267-19th Avenue South
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Current Appointment

Geospatial Developer, U-Spatial, Research Computing, U of MN Apr. 2022 – Present

Previous Employment

Senior Scientist, Dr. Bonnie Keeler lab group, U of MN July 2018 – Apr. 2022

Researcher, Natural Capital Project, U of MN and Stanford Nov. 2014 – July 2018

Graduate Research Assistant, Dr. Jason Hill lab group, U of MN Aug. 2013 – Jan. 2015

Junior Scientist, Dr. Jason Hill lab group, U of MN June 2012 – Aug. 2013

GIS Lab Assistant, Carleton College, Northfield, MN June 2011 – June 2012

Education

M.S. University of Minnesota 2013 - 2015
Natural Resources Science and Management major, concentration in Geospatial Analysis, Environmental Assessment and Monitoring

B.A. Carleton College 2008 - 2012
Environmental Studies major, Conservation and Development focus
Received distinction on senior thesis and in major

Select Publications, Reports, and Tools

Noe, R., Birkel, J., Locke, C., Twine, T., Keeler, B., Hall, L., Pinkalla, S., 2022. Equipping Municipalities with Climate Change Data to Inform Stormwater Management.
<https://z.umn.edu/atlas-14-update-final-report>

Noe, R., Keeler, B., Mayer, T., 2021. Source Water Protection Challenges and Co-benefits.
<https://z.umn.edu/source-water-protection-report>

Noe, R., Locke, C., Lonsdorf, E., Keeler, B., Host, G., Gorzo, J., Johnson, L., Grinde, A., Joyce, M., Bednar, J., Dumke, J., 2020. Measuring what matters: Assessing the full suite of benefits of LSOHF investments. <https://hdl.handle.net/11299/220181>

Noe, R. R., Keeler, B.L., Twine, T.E., Brauman, K.A., Mayer, T., Rogers, M., 2019. Climate change projections for improved management of infrastructure, industry, and water resources in Minnesota. <http://hdl.handle.net/11299/209130>

Noe R., Keeler B., Johnson J., Kilgore M., Taff S., Polasky S., 2018. Parcel Environmental Benefit Assessment Tool, version 1.2. Minneapolis, MN: University of Minnesota. <http://pebat.umn.edu>

Noe, R. R., Keeler, B. L., Kilgore, M. A., Taff, S. J., & Polasky, S., 2017. Mainstreaming ecosystem services in state-level conservation planning: progress and future needs. *Ecology and Society*, 22(4), art4. <https://doi.org/10.5751/ES-09581-220404>

Chaplin-Kramer, R., Sim, S., Hamel, P., Bryant, B., **Noe, R.**, Mueller, C., ... Daily, G., 2017. Life cycle assessment needs predictive spatial modelling for biodiversity and ecosystem services. *Nature Communications*, 8, 15065. <https://doi.org/10.1038/ncomms15065>

Sun, J., Twine, T. E., Hill, J., **Noe, R.**, Shi, J., & Li, M., 2017. Effects of Land Use Change for Crops on Water and Carbon Budgets in the Midwest USA. *Sustainability*, 1–14. <https://doi.org/10.3390/su9020225>

Noe, R. R., Nachman, E. R., Heavenrich, H. R., Keeler, B. L., Hernández, D. L., & Hill, J. D., 2016. Assessing uncertainty in the profitability of prairie biomass production with ecosystem service compensation. *Ecosystem Services*, 21, 103–108. <https://doi.org/10.1016/j.ecoser.2016.05.004>