

Application Form

Disclaimer

Under Florida law, all information, including e-mail, written letters, documents and phone messages, sent to the Alachua County Board of County Commissioners are subject to Public Records law. This includes the sender's e-mail address, home address or phone number if shown in the message, the content of the message and any associated attachments to the mail. If you are exempt from aspects of the public records law pursuant to F.S. 119.071, contact the advisory board coordinator at 352-264-6906 prior to submission of this form.

Please Agree with the Following Statement

I have read the disclaimer above and understand my application is subject to Florida's Public Records Law.

☒ I Agree

Profile

Trista

First Name

M

Middle Initial

Brophy-duron

Last Name

1943 NE 17th Terrace

Home Address

Suite or Apt

Gainesville

City

FL

State

32609

Postal Code

brophy.trista@gmail.com

Email Address

Home: (850) 826-0964

Primary Phone

Alternate Phone

Systems Science & Applications,
Inc

Employer

NASA DEVELOP Geospatial
Analyst

Occupation

Education:

BS in Environmental Science; MA in Global Sustainability; MS in Environmental Science and Policy; Graduate Certificate in Water, Health, & Sustainability; Graduate Certificate in Global Health and Latin American Studies; PhD in Interdisciplinary Ecology (currently enrolled)

Professional Organizations:

American Planning Association; US Green Building Council; Geological Society of America; American Water Works Association;

Which Boards would you like to apply for?

Local Planning Agency and Planning Commission: Submitted

What position(s) are you applying for?

Citizen At Large

Interests & Experiences

Are you currently serving or have you ever served on an Alachua County advisory board?

☐ Yes ☒ No

If yes, please list board(s):

Please list any civic and professional accomplishments/honors, training or experience related to this appointment:

UF Climate Action Plan Resiliency Working Group 2021 City of Gainesville Beautification Board 2019 - 2021 Hillsborough County Livable Roadways Committee 2017-2018 Diversity, Equity, and Inclusion in the Workplace Certificate 2021 National Geographic Certified Educator 2020 Florida Water Star Landscape Accredited Professional 2018 Stormwater, Erosion, and Sedimentation Control Inspector 2018 USGBC LEED Green Associate 2017

What Contributions do you feel you could make if you were selected to this board?

I have formal education and professional experience in sustainability, resiliency, environmental, and climate change planning. Using my knowledge and expertise, I can provide insight into complex and compounding environmental and land use planning issues. I will approach my board contributions as part of a collective team effort to formulate and forward well-developed, science-based recommendations to the County Commission. Additionally, my training in Diversity, Equity, and Inclusion will help ensure my contributions are inclusive and accessible not just for other committee members but also all stakeholders with which we work.

[Brophy Trista CV June2021.pdf](#)

Upload a Resume

Demographics

Some boards and commissions require membership to be racially, politically or geographically proportionate to the general public. The following information helps track our recruitment and diversity efforts.

Ethnicity

☒ Caucasian/Non-Hispanic

Gender

☒ Female

07/22/1985

Date of Birth

Are you over the age of 60? (Required for some boards)

☐ Yes ☒ No

Are you a resident of Alachua County?

☒ Yes ☐ No

If you are an Alachua County resident, how long have you lived in the county?

2 years and 6 months

Supplemental Questions

Some of the boards and committees appointed by the County Commission are required to comply with Chapter 112, Florida Statutes, the Financial Disclosure Law. If applicable, would you be willing to file the required financial statement?

☒ Yes ☐ No

Do you affirm that your personal and business (if applicable) affairs within Alachua County are in substantial compliance with all county regulatory and taxing authorities rules and regulations?

☒ Yes ☐ No

Please Agree with the Following Statement

Appointees to advisory board/committees are required to attend scheduled meetings as specified in the "Guidelines for Citizen Advisory Boards and Committees".

☒ I Agree

Please Agree with the Following Statement

I understand that this completed application is the property of Alachua County and I hereby certify that the statements made on this application are true and correct.

☒ I Agree

Trista M. Brophy

Soil and Water Sciences Department
School of Natural Resources & Environment
College of Agricultural & Life Sciences
University of Florida
2181 McCarty Hall A, PO Box 110290
Gainesville, FL 32611-0290

Phone: 1 (352)-294-3152
Email: tbrophyduron@ufl.edu
Web: LandAndWaterLab.org
ORCID: 0000-0002-4852-6250
Last Updated June 2021

SUMMARY

Environmental sustainability and policy expert with 10+ years of professional, research, and outreach activity. Skilled in resiliency program planning and capacity building across academia and government.

Education

- | | |
|----------------|---|
| 2019 – Present | Ph.D. Interdisciplinary Ecology
Concentration in Urban & Regional Planning
School of Natural Resources & Environment, University of Florida
Interdisciplinary Certificate in Geographic Information Systems
UF Graduate School |
| 2012 – 2016 | M.S. Environmental Science & Policy
Concentration in Water Resources & Policy
School of Geosciences, University of South Florida |
| 2012 – 2014 | Graduate Certificate in Water, Health, & Sustainability
Patel College of Global Sustainability/ University of South Florida |
| 2012 – 2013 | Graduate Certificate in Global Health & Latin America & Caribbean Studies
College of Public Health/ University of South Florida |
| 2011 – 2013 | M.A. Global Sustainability
Concentration in Water Sustainability
Patel College of Global Sustainability/ University of South Florida |
| 2009 – 2011 | B.S. Environmental Science
School of Geosciences/ University of South Florida |

Professional Experience

- | | |
|----------------|--|
| 2021 – Present | Open Innovation & Community Applications Intern, NASA Headquarters |
| 2019 – Present | Graduate Research Assistant, Soil & Water Sciences Dept., University of Florida |
| 2020 – 2020 | Geospatial Research Project Lead, NASA DEVELOP, Science Systems & Applications, Inc. |
| 2020 – 2020 | Geospatial Researcher, NASA DEVELOP, Science Systems & Applications, Inc. |
| 2017 – 2018 | Sustainability Coordinator, Dept. of Public Works, City of Oldsmar |
| 2017 – 2018 | Demand Management Cooperative Intern, Tampa Bay Water |
| 2016 – 2017 | Harvester & Marketing Manager, Urban Oasis Hydroponic Farm |
| 2015 – 2015 | Sustainability & Energy Intern, Manatee County |
| 2015 – 2015 | Student Sustainability Specialist, The Sustany Foundation |
| 2014 – 2015 | Sustainability Science Educator, Elementary Institute of Science |

Research Interests

Coupled human and natural systems, sustainability and resiliency planning, urban stormwater and land development, extreme precipitation and urban flooding, environmental justice, and stakeholder collaboration.

Teaching Activities

Summer 2020	Summer Scientist in Every Florida School Professional Development Workshop University of Florida Thompson Earth Systems Institute
Summer 2019	Summer Scientist in Every Florida School Professional Development Workshop University of Florida Thompson Earth Systems Institute

Publications (+advising author, *graduate student, **undergraduate student)

In Submission	Brophy, T* , SP Hohman*, AJ Reisinger, EZ Bean, SJ Smidt+. Geospatial Analysis of Stormwater Ponds and Water Quality Across the State of Florida. <i>Science of the Total Environment</i> .
In Submission	Brophy, T* , E Griffith*, E Nguyen**, A Schmidt**, A Farough, SJ Smidt+. Relating Land Cover Change to Runoff Distribution Using NASA Earth Observations in Riley County, Kansas. <i>Science of the Total Environment</i> .
In Review	Smidt, SJ+, T Brophy* , X Bi, A Mook, D Adams. Integrating Policy to Achieve a Harmonized Sustainability Model: A Multidisciplinary Synthesis and Conceptual Framework. <i>Journal of Environmental Management</i> .

Presentations (+advising author, *graduate student, **undergraduate student)

2020	Brophy, TM* , E Griffith*, E Nguyen*, A Schmidt*, A Farough, SJ Smidt+. <i>Relating land cover change to runoff distribution using NASA Earth Observations in Riley County, Kansas</i> . Geological Society of America Annual Meeting, Virtual.
2020	Brophy, TM* , E Griffith*, E Nguyen*, A Schmidt*, A Farough, SJ Smidt+. <i>Relating land cover change to runoff distribution using NASA Earth Observations in Riley County, Kansas</i> . Kansas Governor's Water Conference, Virtual. 2020.
2020	Brophy, T* , S Hohman*, AJ Reisinger, EZ Bean, SJ Smidt+. Geospatial analysis of stormwater ponds and water quality across the State of Florida. University of Florida, Water Institute Symposium, Gainesville, FL.
2019	Brophy, T* , SP Hohman*, AJ Reisinger, EZ Bean, SJ Smidt. <i>Geospatial analysis of stormwater ponds and water quality across the state of Florida</i> . Geological Society of American Annual Meeting, Phoenix, AZ.
2019	Brophy, T* , J Tang, D Bracciano, SJ Smidt+. <i>Greenhouse gas emissions of water production at Tampa Bay Water</i> . National Sustainability Summit & National Extension Energy Summit, Tampa, Florida.
2016	Brophy, T* , K. Alsharif+. <i>Environmental and Community Health in South San Diego County: A Behavior Analysis of Recreational Ocean Users Along Imperial Beach, California</i> . Association of American Geographers Annual Meeting, Boston, MA.

Honors and Awards

2020	Best Student Presentation Award, Geology and Society Division, GSA Annual Meeting, \$500
2020	Best Graduate Student Poster Award, Runner-Up, Kansas Governor's Water Conference, \$150
2020	American Water Works Association Scholarship, Florida Section, \$4000
2018	Florida Stormwater Association Scholarship, \$2000
2018	City Manager Impact Award Nominee, City of Oldsmar
2018	Homer-Brunson Award Nominee, City of Oldsmar
2014	Ambassador, USF Patel College of Global Sustainability

Leadership & Community Involvement

2021 - Present	AGU Voices for Science Advocate, <i>American Geophysical Union</i>
2021 - Present	UF Climate Action Plan Resiliency Working Group Member, <i>University of Florida</i>
2020 - Present	UF Carpentries Board Member, <i>University of Florida</i>
2020 - Present	Graduate Student Council President, <i>UF School of Natural Resources & Environment</i>
2019 - Present	City Beautification Board Member, <i>City of Gainesville</i>
2019	Women in Geology Career Pathways Program Mentor at GSA Annual Meeting 2019, <i>Geological Society of America</i>
2019	Resume Clinic Mentor at GSA Annual Meeting 2019, <i>Geological Society of America</i>
2019 - 2021	Argentine Tango Club President, <i>University of Florida</i>
2017 - 2018	Livable Communities Advocate, Livable Roadways Committee, <i>Hillsborough Metropolitan Planning Organization</i>
2015 - 2018	Climate Reality Leader & Mentor, <i>The Climate Reality Project, Pittsburgh</i>

Manuscript Reviews

Urban Ecosystems

Certifications & Licenses

2021	Diversity, Equity, and Inclusion in the Workplace Certificate, <i>USF Muma College of Business</i>
2020	National Geographic Certified Educator, <i>National Geographic</i>
2018	Class-C Industrial Pretreatment, <i>Florida Industrial Pretreatment Association</i>
2018	Florida Water Star Landscape Accredited Professional, <i>Florida Nursery, Growers, Landscapers Assoc.</i>
2018	Notary Public, <i>State of Florida</i>
2018	Stormwater, Erosion, and Sedimentation Control Inspector, <i>Florida DEP</i>
2017	LEED Green Associate, <i>US Green Building Council</i>
2017	Green Industries Best Management Practices, <i>UF IFAS</i>

Professional Development

2021	Fundamentals of Deep Learning Workshop, <i>NVIDIA, UF Research Computing</i>
2021	Introduction to Geospatial Analysis Workshop in R, <i>UF Carpentry Club</i>
2021	Environmental Justice Media Intensive, <i>UF Thompson Earth Systems Institute</i>
2020	Programming R Software Carpentry Workshop, <i>NASA DEVELOP</i>
2020	Programming in Python Software Carpentry Workshop, <i>NASA DEVELOP</i>
2020	SciComm 101 Workshop, <i>UF Thompson Earth Systems Institute, Florida Museum, iDigBio</i>
2019	ARSET Integrating Remote Sensing Into a Water Quality Monitoring Program, <i>NASA</i>
2019	Water Sector Utility Decision Support Technical Workshop, <i>Water Utilities Climate Alliance</i>
2019	5 th Annual Climate Communications Summit, <i>UF Climate Institute</i>
2018	Sustainability Symposium: Champions of Change, <i>US Green Building Council</i>
2017	Adaptation Planning for Coastal Communities, <i>NOAA</i>
2017	Climate Reality Leadership Corps Training, <i>Climate Reality Project, Denver</i>
2017	Wetland Assessment Procedures Trainee, <i>SWF Water Management District</i>
2015	Climate Reality Leadership Corps Training, <i>Climate Reality Project, Miami</i>

Media and Outreach

- 2021 University of Florida. Institute of Food and Agricultural Sciences. School of Natural Resources & Environment. February 24. <http://blogs.ifas.ufl.edu/snre/2021/02/24/land-and-water-lab-students-earn-national-recognition-for-their-research/>
- 2020 Fieldwork Fails. NEA Big Read: Fieldwork Fails, Florida Museum of Natural History. <https://www.youtube.com/watch?v=GcFAqsbID6s>
- 2019 University of Florida. Institute of Food and Agricultural Sciences. Soil and Water Sciences Department. October 30. <https://www.youtube.com/watch?v=IMsjc8XKaHY&t=1s>
- 2018 Suncoast News. February 14. http://www.suncoastnews.com/news/oldsmar-promotes-new-sustainability-programs-and-initiatives/article_222e869a-11b1-11e8-a5a7-077c0736cb2d.html
- 2017 Florida Climate Science: How Can We Help? Taste of Science. April 26. <https://tasteofscience.org/tampa-events/2017/4/26/climate-change>
- 2015 Sustany Foundation. February 11. <https://sustany.org/pcgs-students-serve-as-sustainability-consultants-for-straz-center/>