

Veronica M. White (she/her)

Google Scholar: [user=E-D8maUAAAQ&hl=en](https://scholar.google.com/citations?user=E-D8maUAAAQ&hl=en) ○ Personal Website: <https://vmwhite.github.io/>
vwhite@eng.famu.fsu.edu ○ (850) 410-6245 ○ <https://eng.famu.fsu.edu/ime/people/white>

RESEARCH INTERESTS

Methodologies: Queueing, simulation (discrete event), program evaluation (causal inference, statistical tests), optimization, implementation science.

Application Areas of Interest: public health and public safety (e.g., substance use, mental health, public policy, policing, healthcare access, criminal justice, homelessness)

Statement: My research interests involve modeling, developing, and evaluating interconnected systems that improve public health and safety outcomes via policies and programming. In the past, I used analytics, data science, and operations research approaches to the emerging intersection of policing and substance use disorder, where substance use disorder is a societal problem that impacts many disciplines/areas (e.g., social services, healthcare, criminal justice) and many populations (e.g., people with mental illness, people experiencing homelessness). In the future, I plan to continue to use these methodologies to provide insight into how to connect, implement, and improve public health programs to criminal justice issues.

EMPLOYMENT

Assistant Professor, Data Science in Health Systems Engineering Aug 2024 to Present
Industrial and Manufacturing Engineering
FAMU-FSU College of Engineering, Tallahassee, FL

EDUCATION

Ph.D. – Industrial & Systems Engineering Aug 2024
University of Wisconsin-Madison
Dissertation: Mathematical modeling to support mental health-focused policing and substance use disorder treatment
Committee: Dr. Laura A. Albert (Chair), Dr. Gabriel Zayas-Cabán, Dr. Yonatan Mintz, Dr. Joel Hunt, and Dr. Marguerite Burns

MS – Industrial & Systems Engineering Spring 2019
University of Wisconsin-Madison

BS – Industrial & Manufacturing Systems Engineering *Magna cum Laude* 2017
Iowa State University of Science & Technology

GRANTS

External

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|--------------------------------------------------------------------|------|
| INFORMS Ambassador Program, \$1,700 | 2023 |
| INFORMS Ambassador Program, \$1,930 | 2022 |
| National Institute of Justice Research Assistant Program, \$32,000 | 2021 |
| National Institute of Justice Research Assistant Program, \$80,260 | 2020 |

Internal

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| <i>Crisis Prevention and Intervention Planning</i> , \$19,808, 5/2025 to 8/2025 | 2025 |
| Florida State University Council on Research + Creativity First Year Assistant Professor Program | |
| Student Research Grants Competition, \$600 | 2019 |
| Conference Presentation Fund - University of Wisconsin-Madison | |

PUBLICATIONS

Journal Publications

1. **White, V. M.** & Albert, L. A. (2024). [Evaluating diversion and treatment policies for opioid use disorder](#). IISE Transactions on Healthcare Systems Engineering. DOI: <https://doi.org/10.1080/24725579.2025.2523273>
2. Nyland, J. E., Zhang, A., Balles, J. A., Nguyen, T. H., **White, V. M.**, Albert, L. A., Henningfield, M. F., & Zgierska, A. E. (2024). [Law enforcement-led, pre-arrest diversion-to-treatment may reduce crime recidivism, incarceration, and overdose deaths: Program evaluation outcomes](#). Journal of Substance Use and Addiction Treatment, 165, 209458. <https://doi.org/10.1016/j.josat.2024.209458>.
3. **White, V. M.**, Hunt, J., & Green, B. (2024). [A discussion of current crime forecasting indices and an improvement to the prediction efficiency index for applications](#). Security Journal, 37, 47–64. <https://doi.org/10.1057/s41284-023-00367-4>.
4. Zhang, A., Balles, J. A., Nyland, J. E., Nguyen, T. H., **White, V. M.**, & Zgierska, A. E. (2022). [The relationship between police contacts for drug use-related crime and future arrests, incarceration, and overdoses: a retrospective observational study highlighting the need to break the vicious cycle](#). Harm Reduction Journal, 19, 67. DOI: 10.1186/s12954-022-00652-2
5. **White, V. M.**, Avendano, S. A., Albert, L. A., Zgierska, A.E., Balles J., & Zayas-Cabán G. (2021). [The impact of a community-level initiative that promotes engagement in addiction treatment on recidivism](#). Drug and Alcohol Dependence, 227. DOI: [10.1016/j.drugalcdep.2021.108915](https://doi.org/10.1016/j.drugalcdep.2021.108915)
6. Zgierska, A. E., **White, V. M.**, Balles, J., Nelson, C., Freedman, J., Nguyen, T. H., & Johnson, S. C. (2021). [Pre-arrest diversion to addiction treatment by law enforcement: protocol for the community-level policing initiative to reduce addiction-related harm, including crime](#). Health & Justice, 9(1), 1-9. DOI: 10.1186/s40352-021-00134-w
7. Yoon, S., Albert, L. A., & **White, V. M.** (2021). [A stochastic programming approach for locating and dispatching two types of ambulances](#). Transportation Science, 55(2), 275-296. DOI: [10.1287/trsc.2020.1023](https://doi.org/10.1287/trsc.2020.1023)
8. **White, V. M.**, Molfenter, T., Gustafson, D. H., Horst, J., Greller, R., Kim, J. S., ... & Toy, A. (2020). [NIA Tx-TI versus typical product training on e-health technology implementation: a clustered randomized controlled trial study protocol](#). Implementation Science, 15(1), 1-12. DOI: [10.1186/s13012-020-01053-4](https://doi.org/10.1186/s13012-020-01053-4)
9. Lee, S., Wei, S., **White, V.**, Bain, P., Baker, C., & Li, J. (2020). [Classification of opioid usage through semi-supervised learning for total joint replacement patients](#). IEEE Journal of biomedical and health informatics, 25(1), 189-200, Jan. 2021. DOI: [10.1109/JBHI.2020.2992973](https://doi.org/10.1109/JBHI.2020.2992973)

Conference Proceedings

10. **White, V. M.** & Albert, L. A. (2024). [Alternative police response models to crisis calls](#). In Proceedings of the *IISE Annual Conference & Expo*. May 18 – 21. Montreal, Canada.

11. White, V. M., & Hunt, J. (2022). [Measuring how relatively “good” a hot-spot map is: A summary of current metrics](#). In Proceedings of the IISE Annual Conference & Expo. May 20 – 24. Seattle, WA.
12. Mittal, A., White, V. M., & Krejci, C. (2017). [A framework for collaboration among regional food system participants](#). In Proceedings of the Industrial & Systems Engineering Research Conference. May 20 - 23. Pittsburgh, PA.

Government Reports

13. White, V. M., Rief, R., Hudgins, C. D., Pimsler, M., & Hunt, J. (2025). [A Synthesis of the 2021 NIJ Forecasting Challenge Winning Reports](#). National Institute of Justice. NCJ: 309826.
14. Johnson, T. L, Lopez, B. E., McGrath, J., Hudgins, C. D., Pimsler, M. L., and White, V. M. (2024). [Introducing the NIJ Forensic Intelligence Framework: Pillars and Guiding Principles for Successful Implementation](#). National Institute of Justice. NCJ: 309128.
15. Hudgins, C. D., White, V. M., Kane, R., & O'Brien, M (2024). [Sentinel Event Review for Successful Transition and Reentry Together \(START\) Program in the Eastern District of Wisconsin](#). National Institute of Justice. NCJ: 307990.
16. National Institute of Justice. Nov. (2023). [Understanding Forensic Intelligence: The NIJ Framework](#). NCJ: 307773. (co-author to the five pillars of Forensic Intelligence section).
17. White, V. M., Applegarth, M., Hudgins, C., & Hunt, J. (2022). [The NIJ Recidivism Forecasting Challenge: Contextualizing the Results](#). National Institute of Justice. NCJ: 304110.
18. Hudgins, C. D., White, V. M., & Martin, E. Advancing Evidence-Based Practices in Criminal Justice with Implementation Science. National Institute of Justice. (In Peer Review).

Submitted and Working Papers

19. White, V. M. & Albert, L. A. Evaluating police co-response models for crisis calls. (Working paper)
20. Rico, M. C., Albert L. A., & White V. M. On Locating Prescription Drug Collection Boxes. (Working paper)

Handbooks and Guides

21. White, V.M., Haseltine, C., & Ogidigben, M. (2023). [INFORMS Student Chapter Student Chapter K-12 Outreach Guide](#). INFORMS Outreach Strategic Initiative. INFORMS Ambassador Program.

PRESENTATIONS

* Indicates Presenting Author(s)

Panelist

22. Job Search Panel. 2025 INFORMS Annual Meeting. Minority Issues Forum (MIF) Sponsored Session. Atlanta, GA.
23. Substance Use Disorders and Other Stigmatized Medical Needs. 2024 INFORMS Annual Meeting. Women in Operations Research and Management Science (WORMS) Sponsored Session. Seattle, WA.

Conference Presentations

24. White, V. M.* & Albert, L. A. Evaluating co-response models for crisis calls. 2024 INFORMS Annual Meeting. Oct. 20-23. Seattle, WA.

25. **White, V. M.***, Applegarth, M., Hudgins, C., & Hunt, J. [The NIJ Recidivism Forecasting Challenge: Contextualizing the Results](#). 2023 ASC Annual Meeting. Nov. 15-18th. Philadelphia, PA.
26. **White, V. M.*** & Albert, L. A. Opioid Treatment Policies Using Discrete Event Simulation. 2023 INFORMS Annual Meeting. Oct. 15-18. Phoenix, AZ.
27. **White, V. M.***, Ogidigben, M.* , & Haseltine, C. A.* , Strategic Initiative: High School Outreach Flash Talk. 2023 INFORMS Annual Meeting. Oct. 15-18. Phoenix, AZ.
28. **White, V. M.*** & Albert, L. Diversion and Treatment Policies for Opioid Use Disorder: A Discrete Event Simulation Approach. 2022 INFORMS Annual Meeting. Oct. 16-19. Indianapolis, IN.
29. **White, V. M.***, Ogidigben, M.* , Haseltine, C. A.* , & Scaria, E., Strategic Initiative: High School Outreach Flash Talk. 2022 INFORMS Annual Meeting. Oct. 16-19. Indianapolis, IN.
30. **White, V. M.*** & Albert, L. Analyzing Police Response Models with Multiple Types of Vehicles. 2022 International Association of Crime Analysts. August 22–26. Chicago, IL.
31. **White, V. M.*** & Hunt, J. Measuring how relatively “good” a hot-spot map is: A summary of current metrics. 2022 IISE Annual Conference & Expo. May 20–24. Seattle, WA.
32. **White, V. M.*** & Albert, L. Discrete Event Simulation for Modeling Addiction Treatment Public Policy Changes in Dane County, Wisconsin. 2021 INFORMS Annual Meeting. Oct. 24-27. Virtual.
33. **White, V. M.***, Zayas-Cabán, G., Alvarez, S. A., & Albert, L. The Impact of a Community-level Initiative That Promotes Engagement In Addiction Treatment On Crime Reduction. 2020 INFORMS Annual Meeting. Nov. 8-13. Virtual.
34. Mittal, A.* , **White, V. M.***, & Krejci, C. C. (2017). A Framework for Collaboration among Regional Food System Participants. At the *Industrial & Systems Engineering Research Conference*. May 20 - 23. Pittsburgh, PA.
35. Mittal, A.* , **White, V. M.***, Craven, T.* , Grimm, J., & Krejci, C. C. (2016). Regional Food Hub Coordination Inventory Management System. At the *2016 Annual Iowa Organic Conference*. Nov. 13 - 14. Iowa City, IA.

Project-Related Stakeholder Presentations

36. “Operations Research Meets Criminal Justice.” May 2021. *Let’s RAP! Series*. National Institute of Justice, Washington, D.C. (Virtual).
37. “Amazon Devices Fulfillment Center Allocation Solver.” Aug. 2020. *Internship Project Report Out*. Amazon Inc. Seattle, WA. (Virtual).
38. “Preliminary MARI Outcomes Analysis.” Feb. 2020 & Jun. 2019 at the *MARI Operations Team Monthly Meeting*. Madison, WI.
39. “Counselor Training for RISE-Iowa Mobile Substance Use Disorder (SUD) Treatment Application.” Fall 2019-Spring 2020 as a part of an implementation RCT. Multiple SUD clinic locations across Iowa.
40. “Predicting Opioid Prescription Level Post TJR Surgery.” (2018). At the *Opioid Task Force Meeting*. Jan. 11. Madison, WI.
41. “Iowa Food Hub Collaboration Network” with Mittal A. (2017). At the *Iowa & Michigan Food Hub Managers Working Group Meeting*. May 9 - 10. West Union, IA.

Poster Presentations

42. **White, V. M.***, Meredith, M.* , & Albert, L. Evaluation of a Two-Year Policing Initiative. 2019 INFORMS Annual Meeting. Oct. 20 – 23. Seattle, Washington.

43. Nguyen, T.*, Zgierska, A., & **White, V.** (2019) Madison Addiction Recovery Initiative. *NAPCRG 2019 Practice-based Research Network Conference*. Jun. 24-26. Bethesda, Maryland.
 ♦ Award: Runner-up Best Poster
44. **White, V. M.***, Mittal, A., & Krejci, C. C. (2017). [Inventory Tracking for Iowa's Regional Food Network](#). Poster presented at the *Industrial Advisory Board Meeting*. Apr. 20. Industrial & Manufacturing Systems Engineering, Iowa State University, Ames, IA.

TEACHING EXPERIENCE – UG: Undergraduate students, GD: Graduate students

Instructor: At FAMU-FSU College of Engineering, I was the main instructor for these courses.

- ESI 4234 Quality Control and Reliability Engineering ~ UG, 29 students
 - Fall 2025
- ESI 4523 Simulation of Industrial Engineering Systems ~UG, 27 students
 - Spring 2026, Spring 2025

Teaching Assistant: At the University of Wisconsin-Madison, I held twice-weekly office hours and provided regular feedback to students. Courses ranged from 40 students to over 100 students. For the 300 level courses I prepared and facilitated 2-3 weekly discussion sections to summarize and practice course material with 25-35 students each.

- I SY E 320 – Discrete Event Simulation Modeling ~ 35 UG Spring 2024
- I SY E 323 – Operations Research: Deterministic Modeling ~ 60 UG Spring/Fall 2018
- I SY E 524 – Introduction to Optimization ~ 30 GD Summer 2018
- I SY E 313 – Engineering Economic Analysis ~ 30-60 UG Fall 2017, Summer 2018

Guest Lecturing: At the University of Wisconsin-Madison.

- I SY E 524 – Introduction to Optimization – 75 min ~ 60 GD
 - June 17th & 19th, 2019 — Course Introduction & Review of Linear Algebra
- I SY E 323 – Operations Research: Deterministic Modeling – 75 min ~ 65 UG
 - Nov. 6, 2018 — Integer Programming
 - Apr. 26, 2018 — the Branch and Bound Algorithm

Tutor: At Iowa State University, I worked with five groups of 3-6 UG. Each group met bi-weekly and worked through example problems and student questions.

- Statistics 231 – Introduction to Statistical Concepts & Methods Fall 2016, Spring 2017
- Physics 222 – Introduction to Classical Physics 2 Fall 2016, Spring 2017

Supplemental Instruction Leader: At Iowa State University, I facilitated 3-4 open weekly sessions of 2-20 students. Conducted open exam reviews of 30-100+ UG. Created practice material available at sessions and online. Participated in workshops that taught communication and facilitation techniques.

- Engineering 160 – Engineering Problems Fall 2015, Spring 2016
- Economics 101 – Principles of Microeconomics Fall 2014

RESEARCH MENTORING

Graduate Students – **: Chair of Ph.D. Committee, *: Ph.D. Committee Member.

- Khiran Kumar**, Ph.D. Student, FAMU IME, Fall 2025 to present
- Alexis Andaverde**, Ph.D. Student, FAMU IME, Fall 2024 to present

- Monica Rico, Ph.D. Student, UW–Madison ISYE, Fall 2023 to present

Undergraduate Students – URA: Undergraduate Research Assistant, UROP: Undergraduate Research Opportunity, REU: Research Experience for Undergraduates

Project: “*Aiding Decision-Making for Behavioral and Mental Health Crisis Response.*”

- Amaiya Brown, REU, May 2025 to Aug. 2025, Tool Ecosystem.
- Julia Krostich, UROP and URA, Sept. 2024 to Aug. 2025, R-Shiny Interactive Tool.
- Toni Levisman, UROP and URA, Sept. 2024 to Aug. 2025, R-Shiny Interactive Tool.
- Maia Gleizer, UROP, Sept. 2024 to May. 2025, Flowcharts in R.
- Caleb Valenzuela, UROP, Sept. 2024 to May. 2025, Honolulu, HI Case Study.
- Sarah Keith, UROP, Sept. 2024 to Feb. 2025, Radar Charts in R-Studio.

Project: “*Time-Series Modeling of Opioid-Related Hospital Encounters*”

- Colleen Wall, URA, UW–Madison ISYE, Summer - Fall 2021
 - ❖ Awarded 3rd in OR/MS Tomorrow 2021 Mini-Poster Competition

Project: “*Literature Review and Statistical Analyses of a Community Policing Initiative*”

- Meghan Meredith, URA, UW–Madison ISYE, Spring 2018 - Spring 2019

Project: “*VBA Graphs for an Addiction Mobile Treatment Implementation RCT*”

- Praan Pisithakarn, URA, UW–Madison ISYE & CHESS, Spring 2019

High School Students

Project: “*Aiding Decision-Making for Behavioral and Mental Health Crisis Response.*”

- SV, 2025 FSU Young Scholars Program, Gadsden County Fl Case Study.
- AW, 2025 FSU Young Scholars Program, Gadsden County Fl Case Study.

PROFESSIONAL DEVELOPMENT

Colloquia, Seminars, and Workshops:

- IISE Program — Future Faculty Fellows (3F), Nov. 2021 to May 2022
- INFORMS 2021 Doctoral Student Colloquium, Oct 23, 2021

Courses and Trainings:

- Delta Program Book club — Black Brown Bruised by Ebony McGee, Spring 2021
- Delta Program — Research Mentor Training, Summer 2019
- CIRTL Network course — Dvrsty in the College Classroom, Spring 2019

SERVICE

Session Chair – “Policing and the Opioid Crisis” Oct. 2023

INFORMS Annual Meeting 2023 – Pheonix, AZ

Committee Member of Graduate Student Advisory Committee (GSAC) Nov. 2020 to Jul. 2024

College of Engineering – University of Wisconsin Madison

Ad Hoc Reviewer Aug. 2020 to Aug. 2023

Implementation Science

Cluster Member of Student and Alumni Affairs (SAA) Cluster Dec. 2020 to Dec. 2022

Industrial and Systems Engineering Department – University of Wisconsin-Madison

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| Session Co-Chair with Adam Schmidt, “Simulation Applications for Public Policy” Oct. 2021 <i>INFORMS Annual Meeting 2021</i> | |
| Grant Reviewer for Chapter Development Fund <i>National Science Policy Network (NSPN)</i> | Jun. 2021 to Aug. 2021 |
| Vice President <i>INFORMS Student Chapter– University of Wisconsin Madison</i> | May 2019 to Apr. 2020 |
| Scribe – Wisconsin Institute for Healthcare Systems Engineering Conference | May 2018 |
| Pi Mile Run Co-Coordinator <i>Tau Beta Pi Engineering Honors Society – University of Wisconsin-Madison</i> | Oct. 2018 to Apr. 2019 |
| ▪ Managed, fundraised, and secured permits and venue for local 5k/10k that hosted 100 runners and raised over \$2,000 for Occupaws Guide Dog Association | |
| Vice President <i>Tau Beta Pi Engineering Honors Society – Iowa State University</i> | Jan. 2016 to May 2017 |
| ▪ Led committee to compete in SourceAmerica’s 2016-2017 Design Challenge | |
| ▪ Oversaw projects team, which organizes several community-wide events each semester | |
| ▪ Collaborated with the Advisory board to provide direction and new ideas for the chapter | |
| Vice President of Membership Development <i>Iowa Gamma Chapter of Pi Beta Phi – Iowa State University</i> | Jan. 2015 to Dec. 2015 |
| ▪ Developed and implemented a new Academic Program for the 170-member chapter | |
| ▪ Organized events such as Faculty Appreciation Night, values-based workshops, etc. | |

MEDIA AND PRESS

Social Media

- Personal Blog: <https://vmwhite.github.io/blog.html>
- Twitter Handle: [@VeronicaMWhite](#)
- Awarded [Best Tweet](#) of ACM EAAMO 2021 Conference

News Articles

- [Increasing Underrepresented Students’ Exposure to OR/MS through K-12 Outreach](#) – OR/MS article
- [What's Your StORy? Veronica White](#) – OR/MS Today Series
- [Results from the National Institute of Justice recidivism forecasting challenge](#) – Corrections Today – March/April 2022, pages 12-16
- [MARI reduces six-month recidivism odds](#) – The Capital Times News – Madison, WI

Other Press and News

- [Why Operations Research? Reflecting on Our Journeys to Becoming Ph.D. students in Operations Research](#) – INFORMS Blog Post
- [New study reveals efficacy of Madison’s addiction recovery initiative](#) – Radio Interview with WORT 89.9 FM’s *Jonah Chester*
- [Study shows effectiveness of substance-use diversion program](#) – by *Thomas Ziemer*
- [The food hub managers working group](#) – by *Savanna Lyons*
- [Local foods program supports food hubs across Iowa](#) – by *Teresa Wiemerslage*

HONORS AND AWARDS

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| INFORMS Ambassador | dSpring 2022 & Spring 2023 |
| DAS/SDP Decision Analysis Practice Award, Finalist | Fall 2022 |
| IISE Future Faculty Fellows (3F) Program | Spring 2022 |

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| National Institute of Justice Research Assistant Program Fellowship | Fall 2020 & Fall 2021 |
| Rea & Gustafson Fellowship | Fall 2019 |
| Chancellor's Opportunity Award | Fall 2017 |
| REOMAC Foundation Scholarship | Fall 2015 |
| Wallace Scholar | Fall 2014 |
| Tau Beta Pi – Iowa Alpha Scholar | Fall 2014 |
| Award for Competitive Excellence | Fall 2013 |
| Dean's List Iowa State University | Fall 2013 – Spring 2017 |
| Top 2% of Graduating Class | Fall 2013 |

INDUSTRY EXPERIENCE

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| DIAL OR Scientist Intern, see [37] | Summer 2020 |
| <i>Amazon – Virtual – Seattle, WA</i> | |
| <ul style="list-style-type: none"> ▪ Created a new solver that separated the final optimization model from the primary Amazon Devices Solver, allowing it to be solved separately and repeatedly ▪ Improved several constraints of the separated model ▪ Communicated the new solver's purpose and its logic to various stakeholders such as my team, demand planning team, and contractors in the supply chain for the primary model. ▪ Researched methods to improve optimization solver times ▪ Documented solver's inner workings for the technical team & larger Amazon audience | |
| Corporate Quality Engineering Intern | Summer 2016 & Summer 2017 |
| <i>Shure Incorporated – Niles, IL</i> | |
| <ul style="list-style-type: none"> ▪ Utilized Minitab to analyze a destructive gauge R&R, Salt-fog study using ANOVA, etc. ▪ Used hypothesis & accelerated-life testing to evaluate new product reliability ▪ Implemented a new overseas data collection system ▪ Created 7 test plans for product approval and conducted analyses on results | |
| Safety and Ergonomic Intern | January 2015 to August 2015 |
| <i>Lennox Industries Inc. – Marshalltown, IA</i> | |
| <ul style="list-style-type: none"> ▪ Led the Joint Ergonomics Committee in completing over 23 projects ▪ Aided in 3 Rapid Continuous Improvement projects that lead to ergonomic improvements ▪ Completed 85 Washington Ergonomic Assessments for various work cells | |

ORGANIZATIONS AND INTERESTS

INFORMS: Women in OR/MS (WORMS) Forum, Minority Issues Forum (MIF), Optimization Society, Decision Analysis Society (DAS), Analytics Society, Simulation Society, Public Sector OR Section, Service Science Section, Multiple Criteria Decision-Making Section, Junior Faculty Interest Group

Institute of Industrial and Systems Engineers (IIE)

Tau Beta Pi (TBP) – Engineering Honors Society

NSPN – National Science Policy Network