

# Kimberly A. Hochstedler

## Curriculum Vitae



**Website:** [https://kimhochstedler.github.io/my\\_website/](https://kimhochstedler.github.io/my_website/)

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Cornell University, Department of Statistics and Data Science  
1198 Comstock Hall, 129 Garden Avenue  
Ithaca, NY, 14853

**CV Updated:** 06/01/2022

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### EDUCATION

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| 2020 - 2024 | Ph.D. in Statistics<br>Cornell University, Ithaca, NY<br>GPA: 4.10   |
| 2018 - 2020 | M.S. in Biostatistics<br>University of Michigan, Ann Arbor, MI<br>GPA: 4.00  |
| 2014 - 2018 | B.S. in Statistics and Psychology<br>Carnegie Mellon University, Pittsburgh, PA<br>GPA: 4.00<br>Awarded with University and College Honors, <i>Phi Beta Kappa</i><br><i>Thesis: Self-Disclosure among Emerging Adults with Depression and/or Anxiety</i> |

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### RESEARCH EXPERIENCE

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| 2021 - 2022 | Graduate Research Assistant for R Package Development<br><i>Cornell University, Department of Psychology</i><br><b>Advisor:</b> Felix Thoemmes, Ph.D.   |
| 2018 - 2020 | Graduate Student Research Assistant with the Michigan Radiation Oncology Quality Consortium (MROQC)<br><i>University of Michigan, Department of Radiation Oncology</i><br><b>Advisor:</b> Matthew Schipper, Ph.D. |
| 2019 - 2020 | Graduate Student Researcher in Clinical Trials<br><i>University of Michigan, Department of Biostatistics</i><br><b>Advisors:</b> Kelley Kidwell, Ph.D. and Tom Braun, Ph.D.                                       |

2017	Summer Intern <i>National Institute of Child Health and Human Development, Epidemiology Branch</i> <b>Advisor:</b> Edwina Yeung, Ph.D.
2015 - 2018	Student Researcher in the Gender, Relationships, and Health Lab <i>Carnegie Mellon University, Department of Psychology</i> <b>Advisor:</b> Vicki Helgeson, Ph.D.
2015	Summer Institute for Training in Biostatistics (SIBS) Student <i>University of Wisconsin - Madison, Department of Statistics</i>

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## RESEARCH AND TRAVEL GRANTS

2022-2023	LinkedIn PhD Award (Cornell University Bowers CIS Strategic Partnership Program with LinkedIn, funding for tuition, \$30,000 stipend, and \$5,000 discretionary funds)
2020	Conference Travel Award (University of Michigan, \$800)
2018	Conference Travel Award (Carnegie Mellon University, \$250)
2017	Small Undergraduate Research Grant, awarded twice (Carnegie Mellon University, \$500 each)
2016	Summer Undergraduate Research Fellowship (Carnegie Mellon University, \$3,500)
2016	Conference Travel Award (Carnegie Mellon University, \$250)

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## HONORS AND AWARDS

2022-2023	Center for Teaching Innovation Lead Graduate Teaching Fellowship, Cornell University (\$2,000)
2021-2022	Center for Teaching Innovation Graduate Teaching Fellowship, Cornell University (\$2,000)
2020-2021	Outstanding Graduate Teaching Assistant, Cornell University Department of Statistics and Data Science (\$100)
2019	Richard G. Cornell Fellowship (\$500) <i>For outstanding academic performance in the UM Department of Biostatistics</i>
2018	NCAA Woman of the Year Nominee
2018	NCAA Post-Graduate Scholarship (\$7,500)
2018	Carnegie Mellon University Department of Psychology Oral Presentation Competition at Meeting of the Minds - 1st place (\$250)
2018	Carnegie Mellon Athletics Leadership Development Program
2018	Judith A. Resnik Award (\$1,000)
2018	Dr. William Brown Academic Athletic Achievement Award <i>Awarded to the CMU female student-athlete with the highest cumulative GPA</i>
2018	Gretchen Goldsmith Lankford Award (\$2,500)
2018	Carnegie Mellon Women's Association Scholarship Winner (\$1,000)

2017	<b>Andrew Carnegie Society Scholar (\$1,500)</b>
2017	Carnegie Mellon University, Dietrich College Senior Honors Program
2017	Statistical Graphics and Visualization (Carnegie Mellon University, Department of Statistics) - Top Presenter Award
2017	Carnegie Mellon University Department of Psychology Poster Presentation Competition at Meeting of the Minds - 1st place (\$200)
2017	Carnegie Mellon University Department of Statistics Poster Presentation Competition at Meeting of the Minds - 1st place (\$500)
2014	National Merit Scholarship Finalist
2014-2018	Carnegie Mellon University Dean's List
2013	Carnegie Mellon University Science and Humanities Scholars Program

## PUBLICATIONS

\* First authors contributed equally, # Primary investigators contributed equally

### Peer Reviewed Manuscripts

- [1] Herr, D. J., **Hochstedler, K.A.**, Yin, H., Dess, R. T., Matuszak, M., Grubb, M., Dominello, M., Movsas, B., Kestin, L. L., Bergsma, D., Dragovic, A. F., Grills, I. S., Hayman, J. A., Paximadis, P., Schipper, M., and Jolly, S., "Effect of education and standardization of cardiac dose constraints on heart dose in patients with lung cancer receiving definitive radiation therapy across a statewide consortium," *Practical Radiation Oncology*, 2022, ISSN: 1879-8500. DOI: <https://doi.org/10.1016/j.prro.2022.01.002>.
- [2] Wilkie, J. R., **Hochstedler, K. A.**, Schipper, M. J., Matuszak, M. M., Paximadis, P. A., Dominello, M. M., Grills, I. S., Hayman, J. A., Dess, R. T., Pierce, L. J., Spratt, D. E., Bergsma, D. P., Boike, T. P., Movsas, B., and Jolly, S., "Association between Adverse Events and Quality of Life in Patients Treated with Definitive Radiotherapy for Locally Advanced Lung Cancer in a Statewide Consortium," *International Journal of Radiation Oncology, Biology, Physics*, 2021. DOI: [10.1016/j.ijrobp.2021.11.024](https://doi.org/10.1016/j.ijrobp.2021.11.024).
- [3] \*McFarlane, M. R., **\*Hochstedler, K. A.**, Laucis, A. M., Sun, Y., Chowdhury, A., Matuszak, M. M., Hayman, J. A., Bergsma, D. P., Boike, T. P., Kestin, L. L., Movsas, B., Grills, I. S., Dominello, M. M., Dess, R. T., Schonewolf, C., Spratt, D. E., Pierce, L. J., Paximadis, P. A., #Schipper, M. J., and #Jolly, S., "Predictors of Pneumonitis after Conventionally Fractionated Radiotherapy for Locally Advanced Lung Cancer," *International Journal of Radiation Oncology*, Jul. 2021. DOI: [10.1016/j.ijrobp.2021.07.1691](https://doi.org/10.1016/j.ijrobp.2021.07.1691).
- [4] Hartman, H. E., Yilun, S., Devasia, T., Chase, E., Jairath, N., Dess, R. T., Jackson, W. C., Morris, E., Li, P., **Hochstedler, K. A.**, Abbott, M., Kidwell, K. M., Walter, V., Wang, M., Wang, X., Zaorsky, N., #Schipper, M. J., and #Spratt, D. E., "Integrated Survival Estimates from Cancer Treatment Delay during the COVID-19 Pandemic," *JAMA Oncology*, pp. 1881–1889, Dec. 2020. DOI: [10.1001/jamaoncol.2020.5403](https://doi.org/10.1001/jamaoncol.2020.5403).
- [5] \*Fang, F., **\*Hochstedler, K. A.**, Tamura, R., Braun, T. M., and Kidwell, K. M., "Bayesian Methods to Compare Dose Levels to Placebo in a Small n Sequential Multiple Assignment Randomized Trial (snSMART)," *Statistics in Medicine*, vol. 40, no. 4, pp. 963–977, Nov. 2020. DOI: [10.1002/sim.8813](https://doi.org/10.1002/sim.8813).

- [6] **Hochstedler, K.A.**, Bell, G., Park, H., Ghassabian, A., Bell, E. M., Sundaram, R., Grantz, K. L., and Yeung, E. H., "Gestational Age at Birth and Risk of Developmental Delay: The Upstate KIDS Study," *American Journal of Perinatology*, pp. 1–8, Mar. 2020. DOI: [10.1055/s-0040-1702937](https://doi.org/10.1055/s-0040-1702937).

### Submitted

- [1] Laucis, A. M., **Hochstedler, K. A.**, Schipper, M. J., Paximadis, P. A., Boike, T. P., Bergsma, D. P., Spratt, D. E., Dess, R. T., Mietzel, M. A., Dominello, M. M., Matuszak, M. M., Jagsi, R., Hayman, J. A., Pierce, L. J., and Jolly, S., "Racial Differences in Toxicity in Non-Small Cell Lung Cancer Patients Treated with Thoracic Radiation Therapy," 2020.

### In Preparation

- [1] Thommes, F., Liao, W., Papst, I., Jin, Z., Zhang, W., and **Hochstedler, K.A.**, "rddapp: An R package for multi-assignment regression-discontinuity designs," *Journal of Statistical Software*, 2022.
- [2] Ramanathan, S., **Hochstedler, K. A.**, Laucis, A. M., Movsas, B., Stevens, C. W., Kestin, L. L., Dominello, M. M., Grills, I. S., Matuszak, M. M., Hayman, J. A., Paximadis, P. A., Schipper, M. J., Jolly, S., and Boike, T. P., "Predictors of Early Hospice or Death in Patients with Inoperable Lung Cancer Treated with Curative Intent," 2022.

### Abstracts

Presenter listed as first author

- [1] Laucis, A. M., **Hochstedler, K. A.**, Boike, T. P., Movsas, B., Stevens, C. W., Kestin, L. L., Devisetty, K., Dominello, M. M., Wilkie, J. R., Grills, I. S., Matuszak, M. M., Hayman, J. A., Paximadis, P. A., Pierce, L. J., and Jolly, S., *Predictors of Early Hospice or Death in Patients with Inoperable Lung Cancer Treated with Curative Intent*, Multidisciplinary Thoracic Cancers Symposium, Scottsdale, AZ, Dec. 2020, Poster.
- [2] Herr, D., **Hochstedler, K. A.**, Dess, R. T., Matuszak, M. M., Grubb, M., Dominello, M. M., Kestin, L. L., Bergsma, D. P., Grills, I. S., Hayman, J. A., Paximadis, P. A., Schipper, M. J., and Jolly, S., *Effect of Education and Standardization of Cardiac Dose Constraints on Heart Dose in Lung Cancer Patients Receiving Definitive Radiation Therapy Across a Statewide Consortium*, Multidisciplinary Thoracic Cancers Symposium, Scottsdale, AZ, Dec. 2020, Quick Pitch.
- [3] McFarlane, M. R., **Hochstedler, K. A.**, Laucis, A. M., Sun, Y., Chowdhury, A., Matuszak, M. M., Hayman, J. A., Bergsma, D. P., Boike, T. P., Kestin, L. L., Movsas, B., Grills, I. S., Dominello, M. M., Dess, R. T., Schonewolf, C., Spratt, D. E., Pierce, L. J., Paximadis, P. A., #Schipper, M. J., and #Jolly, S., *Predictors of Pneumonitis after Lung Cancer Radiotherapy*, American Society for Radiation Oncology (ASTRO), Virtual, Oct. 2020, Quick Pitch.
- [4] Laucis, A. M., **Hochstedler, K. A.**, Schipper, M. J., Paximadis, P. A., Boike, T. P., Bergsma, D. P., Spratt, D. E., Dess, R. T., Mietzel, M. A., Dominello, M. M., Matuszak, M. M., Jagsi, R., Hayman, J. A., Pierce, L. J., and Jolly, S., *Racial Differences in Toxicity in Non-Small Cell Lung Cancer Patients Treated with Thoracic Radiation Therapy*, American Society for Radiation Oncology (ASTRO), Virtual, Oct. 2020, Poster.

- [5] Boike, T. P., **Hochstedler, K. A.**, Laucis, A. M., Movsas, B., Stevens, C. W., Kestin, L. L., Devisetty, K., Dominello, M. M., Wilkie, J. R., Grills, I. S., Matuszak, M. M., Hayman, J. A., Paximadis Peter A Pierce, L. J., and Jolly, S., *Predictors of Early Hospice or Death in Patients with Inoperable Lung Cancer Treated with Curative Intent*, American Society for Radiation Oncology (ASTRO), Virtual, Oct. 2020, Poster.
- [6] Wilkie, J., **Hochstedler, K. A.**, Schipper, M., Matuszak, M., Paximadis, P., Dominello, M., Grills, I., Hayman, J., Dess, R., Pierce, L., Spratt, D., Bergsma, D., Movsas, B., and Jolly, S., "Association between Adverse Events and Quality of Life in Patients Treated with Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer," *International Journal of Radiation Oncology\*Biology\*Physics*, vol. 105, no. 1, Supplement, S95–S96, Sep. 2019, Proceedings of the American Society for Radiation Oncology 61st Annual Meeting, ISSN: 0360-3016. DOI: <https://doi.org/10.1016/j.ijrobp.2019.06.575>, Oral Presentation.
- [7] Jolly, S., **Hochstedler, K. A.**, Paximadis, P., Hayman, J., Dominello, M., Burmeister, J., Grills, I., Dess, R., Dragovic, A., Movsas, B., Ajlouni, M., Fraser, C., Kestin, L., Wilson, M., Bergsma, D., Spratt, D., Moran, J., Pierce, L., Schipper, M., and Matuszak, M., "Changing practice patterns in the radiation treatment delivery for locally advanced lung cancer: Results from a statewide consortium," *International Journal of Radiation Oncology\*Biology\*Physics*, vol. 105, no. 1, Supplement, E488, Sep. 2019, Proceedings of the American Society for Radiation Oncology 61st Annual Meeting, ISSN: 0360-3016. DOI: <https://doi.org/10.1016/j.ijrobp.2019.06.1387>, Poster.
- [8] Jaworski, E., **Hochstedler, K. A.**, Dominello, M. M., Heimburger, D., Mancini, T., Boike, T. P., Schipper, M. J., Griffith, K., Moran, J., Pierce, L. J., Hayman, J. A., McLaughlin, P., V, N., Misilmani, M., Paximadis, P. A., Jones, N., Jolly, S., P, C., T, D. R., and Spratt, D. E., *Contemporary Practice Patterns for Intact and Post-Operative Prostate Cancer: Results from a Statewide Collaborative*, American Society for Radiation Oncology (ASTRO), Chicago, IL, Sep. 2019, Poster.
- [9] Helgeson, V. S., **Hochstedler, K. A.**, and Essien, I., *Effects of Manipulated Communal Coping on Dating Couples Coping with a Stressor*, International Association of Relationship Research, Toronto, Canada, Jul. 2016, Oral Presentation.

## PRESENTATIONS

### Contributed - Oral

- [1] **Hochstedler, K. A.**, Fang, F., Tamura, R., Braun, T. M., and Kidwell, K. M., *Bayesian Methods to Compare Dose Levels to Placebo in a Small n Sequential Multiple Assignment Randomized Trial (snSMART)*, Eastern North American Region (ENAR) International Biometric Society, Virtual, Mar. 2020.
- [2] **Hochstedler, K. A.**, *Self-Disclosure among Emerging Adults with Depression and/or Anxiety*, Meeting of the Minds at Carnegie Mellon University, Pittsburgh, PA, May 2018.
- [3] **Hochstedler, K. A.**, *What You Say Matters: Associations between Pronoun Use, Relationships, and Health*, Science and Humanities Scholars Summer Colloquium at Carnegie Mellon University, Pittsburgh, PA, Jul. 2016.
- [4] **\*Hochstedler, K. A.** and Foster, M. J., *Analysis of PROMISE*, Summer Institute for Training in Biostatistics Student Presentations, Madison, WI, Jul. 2015.

## Poster

- [1] **\*Hochstedler, K. A.** and **\*Zhang, J.**, *Association of PPI and H2RA Medication use with Outcomes in Head and Neck Squamous Cell Carcinoma (HNSCC)*, Biostatistics Capstone Poster Session, Virtual, Apr. 2020.
- [2] **\*Hochstedler, K. A.**, **\*Jeet, Y.**, **\*Kang, M.**, and **\*Mahler, S.**, *Does the Timing of Rewards affect Children's Task Performance and Motivation?* Psychology Research Methods Poster Session at Carnegie Mellon University, Pittsburgh, PA, May 2018.
- [3] **Hochstedler, K. A.**, **Helgeson, V. S.**, and **Seltman, H.**, *Meta-Analytic Review of Pronoun Use and Health and Relationship Outcomes*, Society of Behavioral Medicine, New Orleans, LA, Apr. 2018.
- [4] **\*Hochstedler, K. A.**, **\*Idera, S.**, and **\*Rolland, M.**, *Performance and Motivation on Tests of Emotional Intelligence: Gender Differences in Interest and Engagement*, Psychology Research Methods Poster Session at Carnegie Mellon University, Pittsburgh, PA, Dec. 2017.
- [5] **Hochstedler, K. A.**, **Bell, G.**, **Park, H.**, **Ghassabian, A.**, **Bell, E. M.**, **Sundaram, R.**, **Grantz, K. L.**, and **Yeung, E. H.**, *Gestational Age at Birth and Early Childhood Development: The Upstate KIDS Study*, NIH Summer Research Program Poster Day, Bethesda, MD, Aug. 2017.
- [6] **Hochstedler, K. A.**, *Meta-Analytic Review of Pronoun Use and Health and Relationship Outcomes*, Meeting of the Minds at Carnegie Mellon University, Pittsburgh, PA, May 2017.
- [7] **\*Hochstedler, K. A.**, *Self-disclosure among Emerging Adult Survivors of Childhood Illness*, Meeting of the Minds at Carnegie Mellon University, Pittsburgh, PA, May 2017.
- [8] **\*Hochstedler, K. A.**, **\*Black, A.**, **\*Chung, C.**, and **\*Vigliotti, T.**, *What makes a Great Olympian? Analysis of the 2016 Olympics*, Statistical Graphics and Visualization Poster Session at Carnegie Mellon University, Pittsburgh, PA, Apr. 2017.
- [9] **Hochstedler, K. A.**, **Helgeson, V. S.**, **Zajdel, M.**, **Seltman, H.**, **Korytkowski, M.**, and **Hausmann, L.**, *Relations of Couples' Communal and Noncommunal Language to Support and Self-care for People with Type 2 Diabetes*, Society of Behavioral Medicine, Washington D.C. Apr. 2016.
- [10] **\*Hochstedler, K. A.** and **\*Essien, I.**, *Problem Solving among Dating Couples*, Meeting of the Minds at Carnegie Mellon University, Pittsburgh, PA, May 2015.

## SOFTWARE

**"rddapp" R package** (<https://github.com/felixthoemmes/rddapp>): "rddapp" provides a set of functions for the analysis of the regression-discontinuity design (RDD). The main features include estimation of effects of interest, power analysis, and assumption checks.

**Pneumonitis Prediction App** (<http://ppa.mroqc.org/>): Web-based app to estimate the risk of developing pneumonitis in lung cancer patients, based on treatment and clinical characteristics. Designed to aid in radiation treatment planning.

**"cornellcolors" R package** (<https://github.com/kimhochstedler/cornellcolors>): R package with color palettes matching Cornell University's official branding and with color palettes inspired by iconic buildings at Cornell University.



**TEACHING EXPERIENCE**

- 2022-2023      Lead Graduate Teaching Fellow  
*Cornell University, Center for Teaching Innovation*  
**Responsibilities:** Planning and facilitating teaching workshops, developing and coordinating a conference, providing consultation and classroom observation for teaching assistants, planning goals, initiatives, and outreach for the Center for Teaching Innovation
- 2021-2022      Graduate Teaching Fellow  
*Cornell University, Center for Teaching Innovation*  
**Responsibilities:** Facilitating teaching workshops, developing and coordinating a conference
- 2022            Graduate Teaching Assistant  
*Cornell University, School of Continuing Education and Summer Sessions*  
**Course:** Introductory Statistics  
**Professor:** Thomas DiCiccio, Ph.D.
- 2021            Graduate Teaching Assistant  
*Cornell University, Department of Statistics and Data Science*  
**Course:** Biological Statistics II  
**Professor:** Jeremy Entner, Ph.D.  
*Average student rating: 4.82 / 5*
- 2020            Graduate Teaching Assistant  
*Cornell University, Department of Statistics and Data Science*  
**Course:** Statistical Methods I (Graduate Level)  
**Professor:** Sumanta Basu, Ph.D.  
*Average student rating: 4.89 / 5*
- 2019 - 2020    Course Designer  
*University of Michigan, Department of Nutrition*  
**Course:** Hungry in America - Building Skills to Feed Communities  
**Professors:** Kate Bauer, Ph.D. and Susan Aaronson, M.A., R.D.
- 2019            Student in Effective Teaching in Public Health Course  
*University of Michigan, School of Public Health*  
**Topics Covered:** Teaching philosophy, backward course design, SoTL, syllabus development, teaching demonstration  
**Professor:** Olivia Anderson, Ph.D.
- 2018            Undergraduate Teaching Assistant  
*Carnegie Mellon University, Department of Psychology*  
**Course:** Biological Foundations of Behavior  
**Professor:** Marlene Behrmann, Ph.D.

2017 Undergraduate Teaching Assistant  
*Carnegie Mellon University, Department of Psychology*  
**Course:** Social Psychology  
**Professor:** Vicki Helgeson, Ph.D.

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## SERVICE

- *Statistics Graduate Society*, President, Cornell University (2021-2022)
  - *Statistics Graduate Society*, Peer Mentor, Cornell University (2021-2022)
  - *Cornell Law Review*, Statistical Reviewer, Cornell Law School, Cornell University (2021)
  - *Peer Mentoring Committee*, Student Representative, Department of Biostatistics, University of Michigan (2019-2020)
  - *Peer Mentoring Committee*, Peer Mentor, Department of Biostatistics, University of Michigan (2019-2020)
  - Department of Biostatistics First-Year Student Retreat, Co-Organizer and Student Counselor, University of Michigan (2019)
  - *Big Data Summer Institute*, Student Coordinator, University of Michigan (2019)
  - *Diversity, Equity, and Inclusion Ph.D. Student Retreat Planning Committee*, Student Representative, Department of Biostatistics, University of Michigan (2019)
  - *Undergraduate Research Symposium*, Poster Judge, University of Michigan (2019)
  - School of Public Health, Admissions Ambassador, University of Michigan (2018-2020)
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**ADDITIONAL TRAINING**

2020 - 2025	Collaborative Institutional Training Initiative (CITI Program) in Responsible Conduct of Research Cornell University, Ithaca, NY
2020 - 2023	Program for Education and Evaluation in Responsible Research and Scholarship (PEERRS) Certification in Responsible Conduct of Research University of Michigan, Ann Arbor, MI
2018	Approaches to the Responsible Practice of Biostatistics University of Michigan, Ann Arbor, MI
2016	Collaborative Institutional Training Initiative (CITI Program) in Responsible Conduct of Research Carnegie Mellon University, Pittsburgh, PA

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**PROFESSIONAL MEMBERSHIPS**

Eastern North American Region, International Biometric Society (2020)  
Society of Behavioral Medicine (2018)