**Curriculum Vitae**

# DANA M. CARROLL

**1232 Mayo Building**

**Minneapolis, MN 55455-0341**

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**dcarroll@umn.edu**

**Education**

|  |  |
| --- | --- |
| PhD, University of Oklahoma Health Sciences Center.Epidemiology | 2017 |
| Advisor: Dr. Laura A. Beebe |  |
| MPH, Kent State University. Epidemiology | 2013 |
| BS, The Ohio State University. Molecular Genetics | 2007 |

**Fellowships, Residencies, and Visiting Engagements**

***Fellowship***

|  |  |
| --- | --- |
| Postdoctoral Fellow | 2017 - 2019 |
| Masonic Cancer Center, University of Minnesota, Tobacco Research Programs |

**Academic Appointments**

|  |  |
| --- | --- |
| University of Minnesota |  |
| School of Public Health, Division of Environmental Health Sciences: Assistant Professor | 2019 - Present |
| University of Minnesota |  |
| Masonic Cancer Center: Postdoctoral Associate | 2017 - 2019 |
| University of Oklahoma Health Sciences Center |  |
| Biostatistics and Epidemiology Research Design and Analytic Center: Graduate Research Assistant | 2013 - 2017 |
| Kent State University |  |
| College of Public Health: Graduate Research Assistant | 2011 - 2013 |

**Other Professional Positions**

|  |  |
| --- | --- |
| Summit County Public Health |  |
| Biostatistics and Epidemiology Unit: Graduate Research Assistant | 2012 - 2013 |
| Research Assistant | 2012 - 2013 |
| Portage County Mental Health and Recovery Board |  |
| Data Analyst Team Member | 2011-2012 |
| Portage County Maternal and Child Health Consortium**Consulting/Independent Contracting Work**\*ClearWay Minnesota, dissemination of Tribal Tobacco Use Project (TTUP)-II\*Grant reviewer for Oklahoma Tobacco Settlement Endowment Trust (TSET) | 20212020 |

**Certifications**

\* Tobacco Treatment Specialist Training Program and Certification 2020

**Memberships in Professional Organizations**

|  |  |
| --- | --- |
| University of Minnesota Postdoctoral Association | 2018 -2019 |
| Delta Omega Honorary Society in Public Health, Xi Chapter | 2017 - Present |
| Society for Epidemiologic Research | 2017 – 2019 |
| Society for Research on Nicotine and Tobacco | 2013 - Present |

# HONORS AND RECOGNITION

**University of Minnesota**

|  |  |
| --- | --- |
| Rising Star Award, American Cancer Society ResearcHERS of Minnesota  | 2021 |
| Post-Doctoral Research Slam, Best Flash Talk Presentation | 2019 |
| PharmacoNeuroImmunology (PNI) Training Program Poster Presentation Award | 2018 |

**External Sources**

|  |  |
| --- | --- |
| University of Oklahoma Health Sciences Center, Hudson College of Public Health, Young Alumni Award | 2020 |
| Outstanding Dissertation Award, University of Oklahoma Health Sciences Center |  2020 |
| Outstanding Student in Epidemiology, University of Oklahoma Health Sciences Center | 2017 |
| Outstanding Student in the College of Public Health*Given annually to one graduating student in who displays the highest order of performance and professionalism in the College of Public Health.* | 2017 |
| Outstanding Student Leadership Award, University of Oklahoma Health Sciences Center | 2017 |
| Burns-Schaiff Scholarship in Public Health, University of Oklahoma Health Sciences Center *Awarded at the OUHSC College of Public Health annual banquet to one graduate student undertaking research in tobacco dependence and cessation.* | 2016 |
| Graduate College Award for Outstanding Research, University of Oklahoma Health Sciences Center | 2016 |
| O. Ray Kling Award for Outstanding Graduate Student, Student Leadership, University of Oklahoma Health Sciences Center | 2016 |
| College of Public Health, Hudson Fellowship in Public Health, University of Oklahoma Health Sciences Center | 2015 |
| Dan J. Macer Scholarship, University of Oklahoma Health Sciences Center *Awarded at the OUHSC College of Public Health annual banquet to graduate students who demonstrate potential for success in a public health area.* | 2015 |
| Graduate College Award for Scientific Achievement, University of Oklahoma Health Sciences Center | 2015 |
| Graduate College Dean’s Travel Award for Outstanding Research, University of Oklahoma Health Sciences Center | 2015 |
| Elisa T. Lee Scholarship, University of Oklahoma Health Sciences Center*Awarded at the OUHSC College of Public Health annual banquet to one graduate student who demonstrates potential for success in a public health area.* | 2014 |
| Graduate Student Excellence Award, Kent State University, College of Public Health | 2013 |
| Graduate Student Symposium, Achievement in Research Award, Kent State University | 2013 |

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# RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

***Received at University of Minnesota***

**Grants, Contract, Awards: External Sources**

***Currently Funded***

\*1. **Award: Development and Pilot Testing of a Culturally Tailored Smartphone-Delivered Intervention for Commercial Smoking Cessation in American Indians**

Principal Investigator: Carroll, Dana M.

Sponsoring Organization: NIH National Cancer Institute (NCI)

Award Type: R21

Funded Amount for Entire Grant Period: $368,024

\*2. **Award: Summer Research Program for Diversity Students in PharmacoNeuroImmunology**

Project Investigators: Carroll, Dana Mowls (Co-Investigator)

Principal Investigator: Thomas Molitor (Vet Medicine, UMN) and Dorothy Hatsukami (Medical School, UMN)

Sponsoring Organization: National Institutes of Health (NIH)

Award Type: R25

Funded Amount for Entire Grant Period: $539, 895

3. **Award: Laying the Foundation for Personalized Smoking Cessation Treatment in the American Indian Population**

Principal Investigator: Carroll, Dana M.

Sponsoring Organization: NIH/National Institute on Minority Health (NIMHD)

Award Type: K01

Award Dates: August 2020 - February 2025

Funded Amount for Entire Grant Period: $683,896.00

4. **Award: Impact of Sugars on Tobacco Product Toxicity and Abuse Liability**

Project Investigators: Carroll, Dana Mowls (Co-Investigator)

Co-Principal Investigators: Hatsukami, Dorothy (UMN Medical School) and Stepanov, Irina S (UMN SPH)

Sponsoring Organization: NIH/NIDA National Institute on Drug Abuse

Award Type: R01

Award Dates: June 2020 - May 2023

Funded Amount for Entire Grant Period: $1,300,646.00

1. **Award: Consortium on Methods Evaluating Tobacco (COMET): Filter Ventilation and Product Standards**

Project Investigator: Carroll, Dana Mowls (Co-Investigator)

Principal Investigator: Hatsukami, Dorothy, UMN Medical School

Sponsoring Organization: NIH/NCI

Award Type: P01

Award Dates: September 2017 - August 2022

Funded Amount for Entire Grant Period: $2,171,329.00

**Grants, Contract, Awards: Internal Sources, University of Minnesota**

***Currently Funded***

1. **Award: Impact of Low Nicotine Educational Messaging on Smokers’ Perceptions and Behavior**

Project Investigators: Carroll, Dana Mowls (Principal)

Sponsoring Organization: Center for Evaluation of Nicotine in Cigarettes

 Institution: University of Minnesota

Award Dates: February 2020-January 2022

Funded Amount for Entire Grant Period: $30,000.00

1. **Award: Utilizing Traditional Tobacco to Reframe What Tobacco Is and Is Not to Promote Commercial Smoking Cessation in American Indians**

Project Investigators: Carroll, Dana Mowls (Principal)

Sponsoring Organization: Program in Health Disparities Research and Masonic Cancer Center’s Pilot Program

Institution: University of Minnesota

Award Dates: December 2020-December 2021

Funded Amount for Entire Grant Period: $25,000.00

**Grants, Contract, Awards: External Sources: Federal/National/MN Statewide**

***Previously Funded and Concluded***

1. **Award: Evaluating New Nicotine Standards for Cigarettes**

Project Investigators: Carroll, Dana Mowls (Co-Investigator)

Principal Investigator: Hatsukami, Dorothy, UMN Medical School

Sponsoring Organization: NIH/NIDA

Type: U54

Award Dates: March 2017 - February 2022

Funded Amount for Entire Grant Period: $3,095,424.00

1. **Award: Training in Neuroimmune/Neurobehavior Addiction Research**

Project Investigators: Carroll, Dana Mowls (Postdoctoral Associate)

Principal Investigator: Molitor, Thomas (UMN Vet Medicine)

Sponsoring Organization: NIH/NIDA

Type: T32

Award Dates: June 2018 - June 2019

**Grants, Contract, Awards: External Sources: Federal/National/MN Statewide**

***Pending/Submitted***

\*1. **Proposal: National Tribal Tobacco Conference: Reclaiming and Restoring Traditional Tobacco in Today's World**

Role: Multi-Principal Investigator with Claradina Soto (USC)

Sponsoring Organization: NIH/NIMHD

Award Type: R13

Dates: December 2021 – November 2022

Status: Under review

Score: 20

Percentile: NA

**Grants, Contract, Awards: External Sources**

***Grants Submitted and Not Funded***

1. **Proposal: Adapting, implementing, and evaluating a smartphone app for smoking cessation with rural clinics**

Role: Project Lead

Status: Submitted

Sponsoring Organization: NIH National Cancer Institute (NCI)

Date Submitted: March 2020

1. **Proposal: Hair as biological matrix for assessing changes in exposure to air pollution and psychosocial stress among urban adults during the COVID-19 pandemic**

Role: Co-Investigator

Proposal ID: CON000000088065

Status: Submitted

Sponsoring Organization: NIH National Institute of Environmental Health Sciences

 Date Submitted: June 2020

Purpose: Research (R21)

**Other Grants, Awards, Gifts, or Endowment Earnings: External Sources**

***Grants Submitted and Not Funded***

**Proposal: Precision Medicine to Reduce Cancer in Minnesota American Indians; Sub-project: Assessing Nicotine Metabolism in American Indians to Inform Smoking Cessation Treatment**

Role: Co-Investigator

Name of PI: Chris Pennell (Medical School, UMN)/Pamala Jacobson (Pharmacy, UMN)

Source: NIH/NCI

Award Type: P20

Award Date(s): September 2018-August 2022

Submission date: January 2018

Purpose: Studying nicotine metabolism among AI and perceptions of precision medicine will be significant for understanding the mechanisms influencing this population’s increased prevalence of smoking and lung cancer risk, and critical to informing more effective smoking cessation interventions.

**Other Grants, Awards, Gifts, or Endowment Earnings: External Sources**

***Grants Re-Submitted and Not Funded***

\*1. **Proposal: Biomarkers and DNA Adducts to Examine Smoking-Related Lung Cancer Susceptibility in American Indians**

Role: Principal Investigator

Proposal ID: CON000000079353

Status: Submitted

Sponsoring Organization: Lung Cancer Research Foundation

Award Type: 2019 LCRF Research grant on Disparities in Lung Cancer

Date Re-Submitted: February 2019

 Original Submission Date: June 2018

**Other Grants, Awards, Gifts, or Endowment Earnings: Internal Source at University of Minnesota**

***Submitted and Not Funded***

**1. Proposal: Tackling the Wicked Problem of Commercial Tobacco Use in Minnesota American Indians and Alaska Natives Through Culturally Tailored Mobile Applications**

Project Investigators: Carroll, Dana Mowls

Sponsoring Organization: Office of Academic Clinical Affairs Institution: University of Minnesota

Date Proposal Submitted: 2020

Funded Amount for Entire Grant Period or Proposed Grant Period: $20,000.00

***Received at University of Oklahoma Health Sciences Center***

**Grants, Contract, Awards: External Sources**

***Previously Funded and Concluded***

1. **Award: Nicotine Metabolism in American Indian Tobacco and Electronic Cigarette Users**

Project Investigators: Carroll, Dana Mowls (Principal)

Sponsoring Organization: NIH/NIDA

Type: R36 (dissertation grant)

Award Dates: July 2016 - June 2017

Funded Amount for Entire Grant Period: $48,052.00

**Publications**

*Underline - indicates student author*

***Peer-Reviewed Journal Article***

 \*1. **Carroll DM**, Tessier K, Cummings M, O’Connor R, Reisinger S, Shields P, Stepanov I, Xianghua Luo, Hatsukami DK, and Rees V. Smoking trajectories and harm perceptions as a function of cigarette filter ventilation level among U.S. youth and young adults who smoke*.* Accepted and in preparation for publication with *Tobacco Control*.

*Role: Developed study concept and design, analyzed data, wrote manuscript*

\*2. **Carroll DM**, Cole A. U.S. representative examination of racial/ethnic group disparities in smoking behaviors and cessation-related factors. Accepted and in preparation for publication with *American Journal of Alcohol and Drug Abuse*.

*Role: Developed study concept and design, analyzed data, wrote manuscript*

\*3. Denlinger-Apte RL, Pacek LR, Cornacchione Ross J, Bansal-Travers M , Donny EC, Hatsukami DK, and **Carroll DM**. Risk perceptions of low nicotine cigarettes and alternative nicotine products across priority smoking populations*. Int J Environ Res Public Health*. 2021 May 17;18(10):5311.

*Role: Developed study concept and design, analyzed data, and edited manuscript*

\*4. **Carroll DM**, Lindgren B, Dermody SS, Denlinger-Apte R, Cassidy R, Smith T, Pacek L, Allen AM, Tidey JW, Donny EC, and Hatsukami D, Impact of nicotine reduction in cigarettes on smoking behavior and exposure: Are there differences by race/ethnicity, educational attainment, or gender? *Drug and Alcohol Dependence,* 2021 Aug 1;225:108756.

*Role: Developed study concept and design, wrote manuscript*

**\***5**. Carroll DM**, Hatsukami DK. Cigarette filter ventilation and biomarkers—reply. *Cancer Epidemiol Biomarkers Prev*, 30(7), 1450-1450.

*Role: Wrote response*

1. **Carroll DM**, Hernandez C, Braaten G, Meier E, Jacobson P, Begnaud A, McGonagle E, Frizzell LB, Hatsukami DK. Recommendations to researchers for increasing American Indian representation in genetic research and personalized medicine. *Personalized Medicine,* Dec 2020 (online).

*Role: Developed concept and wrote manuscript*

1. Koopmeiners, J., Vock, D., Boatman, J., **Carroll, D.**, Colby, Donny, E., . . . Tidey, J. The Importance of Estimating Causal Effects for January 9, 2020 6 Evaluating a Nicotine Standard for Cigarettes. *Nicotine & Tobacco Research*. [Accepted: 2020]

*Role: Contributed to writing the manuscript*

1. **Carroll, D.**, Wagener, T., Brame, L., Stephens, L., Thompson, D., & Beebe, L. (2020). Nicotine Metabolism and Tobacco Consumption, and Carcinogen Exposure among American Indians. *Addictive Behaviors*. [doi: 10.1016/j.addbeh.2018.10.038](http://dx.doi.org/10.1016/j.addbeh.2018.%2010.038)

*Role: Developed study concept, secured funding, analyzed data, and wrote manuscript*

1. Hatsukami, D. K., & **Carroll, D. M.** (2020). Tobacco harm reduction: Past history, current controversies and a proposed approach for the future. *Preventive medicine, 140*, 106099. [doi:](http://dx.doi.org/10.1016/j.ypmed.2020.106099) [10.1016/j.ypmed.2020.106099](http://dx.doi.org/10.1016/j.ypmed.2020.106099)

*Role: Contributed to writing the manuscript*

1. **Carroll, D. M.**, Cigan, S., Ikuemonisan, J., Hammonds, T., Stepanov, I., St Helen, G., . . . Hatsukami, D. K. (2020). Relationships Between Race, Gender, and Spot Urine Levels of Biomarkers of Tobacco Exposure Vary Based on How Creatinine Is Handled in Analyses. *Nicotine & tobacco research: official journal of the Society for Research on Nicotine and Tobacco, 22*(11), 2109-2113. [doi: 10.1093/ntr/ntaa117](http://dx.doi.org/10.1093/ntr/ntaa117)

*Role: Developed study concept and design, analyzed data, wrote manuscript*

1. **Carroll, D. M.**, Stepanov, I., O'Connor, R., Luo, X., Cummings, K. M., Rees, V. W., . . . Hatsukami, D. K. (2020). Impact of Cigarette Filter Ventilation on U.S. Smokers' Perceptions and Biomarkers of Exposure and Potential Harm. *Cancer epidemiology, biomarkers & prevention: a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*. [doi: 10.1158/1055-9965.EPI-20-0852](http://dx.doi.org/10.1158/1055-9965.EPI-20-0852)

*Role: Developed study concept and design, analyzed data, wrote manuscript*

1. **Carroll, D. M.**, Denlinger-Apte, R. L., Dermody, S., King, J. L., Mercincavage, M., Pacek, L. R., . .. White, C. M. (2020). Polarization within the field of tobacco and nicotine science and its potential impact on trainees. *Nicotine & tobacco research: official journal of the Society for Research on Nicotine and Tobacco*. [doi: 10.1093/ntr/ntaa148](http://dx.doi.org/10.1093/ntr/ntaa148)

*Role: Contributed to manuscript concept and writing the manuscript*

1. **Carroll, D. M.**, Strayer, L., Nardone, N., Pacek, L. R., Kozink, R. V., Tessier, K., . . . Hatsukami, D. (2020). Development and Piloting Testing of an Experimental Tobacco and Nicotine Product Marketplace. *Nicotine & tobacco research: official journal of the Society for Research on Nicotine and Tobacco, 22*(7), 1230-1234. [doi: 10.1093/ntr/ntz195](http://dx.doi.org/10.1093/ntr/ntz195)

*Role: Collected data, developed analytic plan, analyzed data, and wrote manuscript*

1. **Carroll, D. M.**, Murphy, S. E., Benowitz, N. L., Strasser, A. A., Kotlyar, M., Hecht, S. S., . . . Hatsukami, D. K. (2020). Relationships between the Nicotine Metabolite Ratio and a Panel of Exposure and Effect Biomarkers: Findings from Two Studies of U.S. Commercial Cigarette Smokers. *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology, 29*(4), 871-879. [doi: 10.1158/1055-9965.EPI-19-0644](http://dx.doi.org/10.1158/1055-9965.EPI-19-0644)

*Role: Developed study concept and design, analyzed data, wrote manuscript*

1. **Carroll, D. M.**, Soto, C., Baezconde-Garbanati, L., Huang, L. L., Lienemann, B. A., Meissner, H. I., . . . Cruz, T. B. (2020). Tobacco Industry Marketing Exposure and Commercial Tobacco Product Use Disparities among American Indians and Alaska Natives. *Substance use & misuse, 55*(2), 261-270. [doi: 10.1080/10826084.2019.1664589](http://dx.doi.org/10.1080/10826084.2019.1664589)

*Role: Developed analytic plan, analyzed data, and wrote manuscript*

1. Smith, T. T., Donny, E. C., Luo, X., Allen, A. M., **Carroll, D. M.**, Denlinger-Apte, R. L., . . .

Hatsukami, D. K. (2019). The Impact of Gradual and Immediate Nicotine Reduction on Subjective Cigarette Ratings. *Nicotine & tobacco research: official journal of the Society for Research on Nicotine and Tobacco, 21*(Suppl 1), S73-S80. [doi: 10.1093/ntr/ntz158](http://dx.doi.org/10.1093/ntr/ntz158)

*Role: Contributed to literature review and writing the manuscript*

1. Cruz, T. B., Rose, S. W., Lienemann, B. A., Byron, M. J., Meissner, H. I., Baezconde- Garbanati, L., . . . Unger, J. B. (2019). Pro-tobacco marketing and anti-tobacco campaigns aimed at vulnerable populations: A review of the literature. *Tobacco induced diseases, 17*, 68. [doi: 10.18332/tid/111397](http://dx.doi.org/10.18332/tid/111397)

*Role: Assisted with literature review and writing of manuscript*

1. **Carroll, D.**, Allenzara, A., Jensen, J., Stepanov, I., Hecht, S., Murphy, S., . . . Hatsukami, D. (2019). Biomarkers of Tobacco-Related Exposure and Potential among Cigarette Smokers of the Natural American Spirit Brand. *Tobacco Regulatory Science, 5*(4), 339-351. doi: https://doi.org/10.18001/TRS.5.4.4

*Role: Developed analytic plan, analyzed data, and wrote manuscript*

1. **Carroll, D. M.**, Wagener, T. L., Stephens, L. D., Brame, L. S., Thompson, D. M., & Beebe,

L. A. (2019). The relationship between nicotine metabolism and nicotine and carcinogen exposure among American Indian commercial cigarette smokers and electronic nicotine delivery system users. *Addictive behaviors, 92*, 58-63. [doi: 10.1016/j.addbeh.2018.10.038](http://dx.doi.org/10.1016/j.addbeh.2018.10.038)

*Role: Developed study concept, secured funding, analyzed data, and wrote manuscript*

1. **Carroll, D. M.**, Wagener, T. L., Peck, J. D., Brame, L. S., Thompson, D. M., Stephens, L. D.,

. . . Beebe, L. A. (2018). Biomarkers of Exposure in ENDS Users, Smokers, and Dual Users of American Indian Descent. *Tobacco regulatory science, 4*(2), 3-15. [doi:](http://dx.doi.org/10.18001/TRS.4.2.1) [10.18001/TRS.4.2.1](http://dx.doi.org/10.18001/TRS.4.2.1)

*Role: Developed study concept, secured funding, analyzed data, and wrote manuscript*

1. Leavens ELS, Meier, E., Tackett, A. P., Miller, M. B., Tahirkheli, N. N., Brett, E. I., . . . Wagener, T. L. (2018). The impact of a brief cessation induction intervention for waterpipe tobacco smoking: A pilot randomized clinical trial. *Addictive behaviors, 78*, 94-100. [doi:](http://dx.doi.org/10.1016/j.addbeh.2017.10.023) [10.1016/j.addbeh.2017.10.023](http://dx.doi.org/10.1016/j.addbeh.2017.10.023)

*Role: Contributed to data collected and assisted with writing the manuscript*

1. **Carroll, D. M.**, Brame, L. S., Stephens, L. D., Wagener, T. L., Campbell, J. E., & Beebe, L.

A. (2018). Community-Based Study Recruitment of American Indian Cigarette Smokers and Electronic Cigarette Users. *Journal of community health, 43*(1), 186-192. [doi:](http://dx.doi.org/10.1007/s10900-017-0401-0) [10.1007/s10900-017-0401-0](http://dx.doi.org/10.1007/s10900-017-0401-0)

*Role: Developed study concept, secured funding, analyzed data, and wrote manuscript*

1. **Carroll, D. M.**, Wagener, T. L., Thompson, D. M., Stephens, L. D., Peck, J. D., Campbell, J. E., & Beebe, L. A. (2017). Electronic nicotine delivery system use behaviour and loss of autonomy among American Indians: results from an observational study. *BMJ open, 7*(12), e018469. [doi: 10.1136/bmjopen-2017-018469](http://dx.doi.org/10.1136/bmjopen-2017-018469)

*Role: Developed study concept, secured funding, analyzed data, and wrote manuscript*

1. **Mowls, D. S.**, Boeckman, L., Gillaspy, S. R., & Beebe, L. A. (2017). Long-term Quit Rates in Fax-Referred as Compared to Self-Referred Tobacco Quitline Registrants. *American journal of preventive medicine, 52*(4), e115-e121. [doi: 10.1016/j.amepre.2016.11.006](http://dx.doi.org/10.1016/j.amepre.2016.11.006) *Role: Conducted literature review, analyzed data, and wrote manuscript*
2. Cheruvu, V. K., Odhiambo, L. A., **Mowls, D. S.**, Zullo, M. D., & Gudina, A. T. (2016). Health-related quality of life in current smokers with COPD: factors associated with current smoking and new insights into sex differences. *International journal of chronic obstructive pulmonary disease, 11*, 2211-2219. [doi: 10.2147/COPD.S106207](http://dx.doi.org/10.2147/COPD.S106207)

*Role: Assisted with writing manuscript*

1. **Mowls, D. S.**, Brame, L. S., Martinez, S. A., & Beebe, L. A. (2016). Lifestyle behaviors among US cancer survivors. *Journal of cancer survivorship : research and practice, 10*(4), 692-8. [doi: 10.1007/s11764-016-0515-x](http://dx.doi.org/10.1007/s11764-016-0515-x)

*Role: Conducted literature review, designed study, analyzed data, wrote manuscript*

1. Martinez, S. A., Janitz, A. E., Erb-Alvarez, J., **Mowls, D. S.**, Campbell, J. E., & Anderson, T. (2016). Cancer among American Indians - Identifying Priority Areas in Oklahoma. *The Journal of the Oklahoma State Medical Association, 109*(7-8), 374-384.

*Role: Assisted with writing manuscript*

1. Brame, L. S., **Mowls, D. S.**, Damphousse, K. E., & Beebe, L. A. (2016). Electronic nicotine delivery system landscape in licensed tobacco retailers: results of a county-level survey in Oklahoma. *BMJ open, 6*(6), e011053. [doi: 10.1136/bmjopen-2016-011053](http://dx.doi.org/10.1136/bmjopen-2016-011053)

*Role: Mentored first author, designed study, analyzed data, assisted with writing manuscript*

1. Tankut, S., **Mowls, D.**, & McCaffree, D. (2015). Factors Associated with Smoking Cessation Attempts in Asthmatics. *Journal of the Oklahoma State Medical Association, 108*(11), 477-81. *Role: Mentored first author, analyzed data, assisted with writing manuscript*
2. Damphousse, K. E., **Mowls, D. S.**, & Beebe, L. A. (2015). An Ecological Analysis of Tobacco Use and Oral Cavity and Pharynx Cancers in U.S. Males. *The Journal of the Oklahoma State Medical Association, 108*(11), 488-91.

*Role: Mentored first author, designed study, analyzed data, assisted with writing manuscript*

1. **Mowls, D. S.**, Campbell, J., & Beebe, L. A. (2015). Race and Gender Disparities in Lung Cancer Incidence Rates, 2001-2010. *The Journal of the Oklahoma State Medical Association, 108*(11), 482-7.

*Role: Conducted literature review, analyzed data, and wrote manuscript*

1. **Mowls, D. S.**, McCaffree, D. R., & Beebe, L. A. (2015). Trends in lung cancer incidence rates, Oklahoma 2005-2010. *PloS one, 10*(4), e0119251. [doi: 10.1371/journal.pone.0119251](http://dx.doi.org/10.1371/journal.pone.0119251) *Role: Developed study concept and design, analyzed data, wrote manuscript*
2. **Mowls, D. S.**, Cheruvu, V. K., Schilz, R., & Zullo, M. D. (2015). COPD in a nationally representative sample: sociodemographic factors and co-morbidity, diagnosis method, and healthcare utilization. *COPD, 12*(1), 96-103. [doi: 10.3109/15412555.2014.922065](http://dx.doi.org/10.3109/15412555.2014.922065)

*Role: Conducted literature review, analyzed data, wrote manuscript*

1. **Mowls, D. S.**, Cheruvu, V. K., & Zullo, M. D. (2014). Clinical and individual factors associated with smoking quit attempts among adults with COPD: do factors vary with regard to race? *International journal of environmental research and public health, 11*(4), 3717-27. [doi: 10.3390/ijerph110403717](http://dx.doi.org/10.3390/ijerph110403717)

*Role: Conducted literature review, analyzed data, wrote manuscript*

1. **Mowls, D. S.**, Cheruvu, V. K., & Zullo, M. D. (2013). Influenza vaccination in adults with chronic obstructive pulmonary disease: the impact of a diagnostic breathing test on vaccination rates. *PloS one, 8*(6), e67600. [doi: 10.1371/journal.pone.0067600](http://dx.doi.org/10.1371/journal.pone.0067600)

*Role: Conducted literature review, analyzed data, wrote manuscript*

***Brief***

**Mowls** (2013). *Infant Mortality Brief, 2000-2009*. Stow, OH: Summit County Child and Family Health Services Program. Summit County Public Health Department.

***Technical Report***

Beaird, H., **Mowls, D.**, & Blaire, S. (2014). *Summit County Maternal and Child Health Indicators: A Report to the community from the Summit County Child and Family Health Services Consortium*. Stow, OH. [Non-Refereed]

Beaird, H., **Mowls, D.**, & Towne, K. (2013). *Portage County Maternal and Child Health Indicators: A Report to the Portage County Maternal and Child Health Consortium for Issue Prioritization*. Ravenna, OH: Portage County Child and Family Health Services Program.

Portage County Health Department.

**Publications Submitted and Under Review**

***Peer-Reviewed Journal Article***

1. Differding M\*, Katz SJ, Stayer L, White C, Strasser A, Donny E, and Hatsukami DK and **Carroll DM**. Educating the public on a low nicotine content standard in cigarettes: Results from a U.S.- based convenience sample*.* Under review with *Nicotine and Tobacco Research*.

*Role: Developed study concept and design, acquired funding, analyzed data, wrote manuscript and mentored student in writing manuscript*

*\** Student advisee

1. Breland A, **Carroll DM**, Denlinger-Apte R, Cornacchione-Ross J, Soto C, White C, Donny E, Fagan P, Hatsukami D, Gardiner P, Eissenberg T, and Guy MC. Bringing racial justice to the forefront of commercial tobacco product regulations.

*Role: Contributed to writing of the commentary.* Under review with *AJPH*.

**Presentations, Posters, and Exhibits**

#  *Invited Presentations*

\*1. **Carroll, D.M.** *From bench science to the community: an example of using the Masonic Cancer Center's expertise to help respond to a community-identified need*. (2021). Masonic Cancer Center Seminar Series. Role: Co-Presenter. Virtual.

\*2. **Carroll, D.M.** *From culturally-tailored smoking cessation interventions to tobacco harm reduction: the many opportunities for reducing commercial tobacco use disparities*. (2021). South Carolina Research Interest Group (SC TRIG). Virtual.

\*3. **Carroll, D.M.** *Collaborations with American Indian Tribes and Communities to Achieve Health Equity*. (2021). University of Minnesota Health Equity Workgroup (HEWG) Spring Meeting. Virtual.

1. **Carroll, D.M.** *Working as an Ally to American Indians Communities to Reduce the Burden of Commercial Tobacco Use*. (2021). January State Health Access Data Assistance Center (SHADAC) Research Meeting. Virtual.
2. **Carroll, D.M.** *Application of the Population Assessment of Tobacco Use and Health (PATH) Study*. (2021). Cancer Research Translational Initiative Data Palooza: Data Resources for Population-Based Cancer Research.Virtual.
3. **Carroll, D.M.** *E-cigarette Polarization and Recommendations to Curtail its Potential to Exacerbate Tobacco-Related Disparities*. (2020). Society for Research on Nicotine and Tobacco’s E-cigarette and Health Equity. Virtual.
4. **Carroll, D.M.** *Best Practices for Protecting Minority and Underrepresented Populations in the Study of Biospecimens and Other Detailed Personal Health Information*. (2020). American Conference of Governmental Industrial Hygienists webinar as part of Perspectives on Total Worker Exposure, its Applications, and its Implications. Virtual.
5. **Carroll, D.M.** *Tobacco Use Disparities in Minnesota and Community Engaged Research*. (2020).Masonic Cancer Center Tobacco Research Programs Seminar Series.
6. **Carroll, D.M.** *Community-Based Participatory Research to Reduce Commercial Smoking Among American Indians*. Masonic Cancer Center Seminar Series. (2020).
7. **Carroll, D. M.** *Science Policy*. (2019). PharmacoNeuroImmunology (PNI) Annual Retreat. Minneapolis, Minnesota.
8. **Carroll, D. M.** *A Precision Medicine Approach to Smoking Cessation in Native Americans*. (2018). Addressing the Precision Medicine Knowledge Gap. Summit for Native American & Rural Health. Duluth, Minnesota.
9. **Carroll, D. M.** *Setting the Stage for Genetic and Personalized Medicine Studies for Smoking Cessation Among American Indians.* (2018). University of Minnesota PharmacoNeuroImmunology (PNI) Program. Minneapolis, Minnesota.
10. **Carroll, D. M.** *Towards A Precision Medicine Approach to Smoking Cessation in Native Americans*. (2018). Minnesota Precision Medicine Collaborative—Precision Medicine Seminar Series. Minneapolis, Minnesota.
11. **Carroll, D. M.** *Nicotine Metabolism among American Indian Smokers*. (2018). Masonic Cancer Center Tobacco Research Programs Seminar Series. Minneapolis, Minnesota.
12. **Carroll, D. M.** *Cigarette Smoking, Electronic Nicotine Product Use, and Biomarkers of Exposure Among American Indians in the Southern Plains*. (2017).Biostatistics and Epidemiology Seminars Series University of Oklahoma Health Sciences Center.Oklahoma City, Oklahoma.
13. **Carroll, D. M.** *Working with Tribes for Health Research*. (2016). Southern Plains Tribal Public Health Conference. Oklahoma City, Oklahoma.
14. **Carroll, D. M.** *Cigarette Smoking, and Electronic Nicotine Product Use Among American Indians in the Southern Plains.* (2016). Masonic Cancer Center Tobacco Research Programs Seminar Series. Minneapolis, Minnesota.
15. **Carroll, D. M.** *Nicotine Metabolism in American Indian Smokers and Electronic Cigarette Users* (2016).Biostatistics and Epidemiology Seminar Series University of Oklahoma Health Sciences Center. Oklahoma City, Oklahoma.

***Contributed Presentations at Professional Meetings, Conferences, etc.***

1. **Carroll DM**. Researcher directed recommendations for collaborating with American Indians Tribes/Communities to Achieve Smoking-Related Health Equity. Symposium session: *Where the Rubber Meets the Road: Culturally Tailored Tobacco Control Research and Interventions to Achieve Health Equity*. Society for Research on Nicotine and Tobacco Conference. February 2021. Virtual conference.

2. **Carroll DM** and the CENIC group. *Testing Messaging on Low Nicotine Cigarettes to Correct Misperceptions*. Tobacco Regulatory Science Conference. (2020). Virtual.

3. **Carroll DM**, Stepanov I, O’Conner R, Luo XK, Cummings M, Rees V, Bickel WK, Shields P, Hatuskami DK. *Impact of Cigarette Filter Ventilation on Biomarkers of Tobacco-related Exposure and Biological Effect and Perceptions of Harm*. Society for Research on Nicotine and Tobacco Annual Meeting. (2020). New Orleans, LA.

4. **Carroll, D. M.**, Soto, C., Baezconde-Garbanati, L., Huang, L., Lienemann, B., Meissner, H., Rose, S., Unger, J. T*obacco Industry Marketing Exposure and Commercial Tobacco Product Use Disparities among American Indians and Alaska Natives.* National Conference on Tobacco or Health Annual Meeting. (2019). Minneapolis, Minnesota.

5. **Carroll, D. M.**, Strayer, L., Bickel, W., Hatsukami, D. *An Experimental Tobacco and Nicotine Product Marketplace: A Platform for Testing Policies and Regulations.* Society for Research on Nicotine and Tobacco Annual Meeting. (2019). San Francisco, California. (Presented by Hatsukami, D. due to Carroll leave)

6. **Carroll, D. M.**, Jensen, J., Stepanov, I., Murphy, S., Hecht, S., Lou, X., Donny, E., Hatsukami, D. *Perceived Health Risks and Biomarkers of Potential Harm among Natural American Spirit Brand Smokers.* Society for Research on Nicotine and Tobacco Annual Meeting. (2018). Baltimore, Maryland.

7. **Carroll, D. M.**, Boeckman, L., Gillaspy, T., Beebe, L. *Impact of Helpline Fax Referral Program on Quit Outcomes.* Graduate Research Education and Technology (GREAT) Symposium. (2016). Oklahoma City, Oklahoma.

8. **Carroll, D. M.**, Beebe, L. *Unhealthy Behaviors Among Cancer Survivors*. Graduate Research Education and Technology (GREAT) Symposium. (2015). Oklahoma City, Oklahoma.

9. **Carroll, D. M.**, Ganapathy, V., Zhao, D., Queimado, L. *Influence of Clinical and Lifestyle Factors on DNA Damage in Head and Neck Cancer*. Otorhinolaryngology Research Day. (2015). Oklahoma City, Oklahoma.

10. **Carroll, D. M.**, Beebe, L. *Long-Term Projections in Smoking-Attributable Lung Cancer By*

*Gender.* Society for Research on Nicotine and Tobacco Conference. (2015). Philadelphia, Pennsylvania.

11. **Carroll, D. M.**, Beebe, L. *Race Specific Trends in Invasive Lung Cancer, Oklahoma 2001- 2010*. Graduate Research Education and Technology (GREAT) Symposium. (2014). Oklahoma City, Oklahoma.

12. **Carroll, D. M.**, Beebe, L. *Behavioral Risk Factors among Cancer Survivors in Oklahoma.* Stephenson Cancer Center Research Symposium. (2014). Oklahoma City, Oklahoma.

13. **Carroll, D. M.**, Cheruvu, V., Zullo, M. *HRQOL in Adults with COPD: Who is Still Smoking and Where Can Public Health and Clinical Medicine Intervene?* American Public Health Association Annual Conference. (2013). Boston, Massachusetts.

14. **Carroll, D. M.** *Influenza Vaccination Rates in Adults with Chronic Obstructive Pulmonary Disease: The Impact of a Diagnostic Breathing Test.* Graduate Research Symposium. (2013). Kent State University, Ohio.

# *Contributed Posters Presented at Professional Meetings, Conferences, etc.*

\*1. **Carroll DM**, Cole A. *U.S. representative examination of racial/ethnic group disparities in smoking behaviors, quit ratios, and cessation-related factors*. Society for Research on Nicotine and Tobacco Annual Meeting. February 2021. Virtual conference.

**\***2**.** Sherri Jean Katz**,** Lori Strayer, Eric C Donny, Dorothy Hatsukami and **Carroll DM**. *Communicating Health Risks of Low Nicotine Content Cigarettes: A Test of Strategies to Mitigate Disruptive Cognitive Processing*. Society for Research on Nicotine and Tobacco Annual Meeting. February 2021. Virtual conference.

\*3. Jennings D (Community Partner), Hatsukami D, and **Carroll DM**. Utilizing traditional tobacco to reframe what tobacco is and is not to promote commercial smoking cessation in Native Americans: rationale, partnership goals, and planned milestones. University of Minnesota Power of Partnerships Annual Conference. February 2021. Minneapolis, MN.

1. **Carroll, D. M.**, Murphy, S., Benowitz, N., Strasser, A., Kotlyar, M., Hecht, S., Carmella, McClernon, J., Dermody, S., Vandrey, R., Donny, E., Hatsukami, D. *Relationships between Nicotine Metabolite Ratio and a Panel of Exposure and Effect Biomarkers.* Society for Research on Nicotine and Tobacco Annual Meeting. (2020). New Orleans, Louisiana.
2. **Carroll, D. M.**, Dermody, R., Denlinger-Apte, R., Cassidy, R., Allen, A., Smith, R., Lindgren, B., Pacek, L., Tidey, J., Donny, E., Hatsukami, D. *Does the Optimal Approach to Nicotine Reduction in Cigarettes Differ by Race, Gender, or Education?* Centers of Regulatory Science Meeting. (2019). Bethesda, Maryland.
3. **Carroll, D. M.**, Rose, S., Unger, J., Soto, C., Lienemann, B., Byron, J., Meissner, H., Huang, L., Baezconde-Garbanati, L., Cruz, T. *Pro- and Anti-Tobacco Marketing Aimed at Vulnerable Populations: A Systematic Review.* National Conference on Tobacco or Health Annual Meeting. (2019). Minneapolis, Minnesota.
4. **Carroll, D. M.**, Jensen, J., Donny, E., Hecht, S., Murphy, S., Lou, X., Stepanov, Hatsukami *Exposure Biomarkers among Natural American Spirit Smokers,* UMN PharmacoNeuroImmunology (PNI) Annual Meeting. (2018). Minneapolis, Minnesota.
5. **Carroll, D. M.**, Jensen, J., Donny, E., Murphy, S., Lou, X., Stepanov, I., Hatsukami, D. *Toxicant and Inflammatory Biomarkers among Natural American Spirit Smokers,* Masonic Cancer Center, Annual Cancer Research Symposium. (2018). Minneapolis, Minnesota.
6. **Carroll, D. M.**, Jensen, J., Donny, E., Hecht, S., Murphy, S., Lou, X., Stepanov, I., Hatsukami, C. *Toxicant and Inflammatory Biomarkers among Natural American Spirit Smokers,* Tobacco Centers of Regulatory Science Meeting. (2017). Bethesda, Maryland.
7. **Carroll, D. M.**, Wagener, T., Peck, J., Brame, L., Thompson, Stephens, L., Campbell, J., Beebe *Biomarkers of Tobacco Exposure in ENDS Users, Cigarette Smokers, and Dual Users of American Indian Descent.* Association of American Indian Physicians Conference. (2017). Oklahoma City, Oklahoma. Presented by Stephens LD
8. **Carroll, D. M.**, Wagener, T., Beebe, L. *Electronic Nicotine Product Use, Cigarette Smoking, and Dual Use among American Indians in a Pilot Study.* Society for Research on Nicotine and Tobacco Conference. (2017). Florence, Italy.
9. **Carroll, D. M.**, Martinez, S., Mushtaq, N., Beebe, L. *Current Cigarette Smoking and Tobacco Dependence among GED Recipients.* Society for Research on Nicotine and Tobacco Conference. (2017). Florence, Italy
10. **Carroll, D. M.**, Williams, B., Mushtaq, N., Beebe, L. *Policies, Perceptions and Polytobacco Use.* Society for Research on Nicotine and Tobacco Conference. (2016). Chicago, Illinois.
11. **Carroll, D. M.**, Carabin, H. *Hepatitis C Virus Transmission Among Injection Drug Users.* Graduate Research Education and Technology (GREAT) Symposium. (2015). Oklahoma City, Oklahoma.
12. **Carroll, D. M.**, Brame, L., Beebe, L. *Recent Trends in Tobacco-Related Cancer by Gender.* Stephenson Cancer Center Research Symposium. (2015). Oklahoma City, Oklahoma.
13. **Carroll, D. M.**, Cheruvu, V., Zullo, M. *Factors Associated with Attempt to Quit Smoking among Adults with Chronic Obstructive Pulmonary Disease.* American Public Health Association Annual Conference. (2013). Boston, Massachusetts.
14. **Carroll, D. M.**, Zullo, M., Cheruvu, V. *Perceived Weight, not Body Mass Index: a Strong Predictor of Suicide Risk among US Adolescents.* Society for Epidemiology Research Annual Meeting. (2013). Boston, Massachusetts.
15. **Carroll, D. M.**, Cheruvu, V., Zullo, M. *Underutilization of Spirometry in Adults Diagnosed with Chronic Obstructive Pulmonary Disease: Who to Target for Improved Clinical Management.* Society for Epidemiology Research Annual Meeting. (2013). Boston, Massachusetts.
16. **Carroll, D. M.**, Zullo, M., Cheruvu, V. *Perceived Weight, not Body Mass Index: a Strong Predictor of Suicide Risk among US Adolescents.* Graduate Research Symposium Kent State University. (2013). Kent, Ohio.
17. **Carroll, D. M.**, Cheruvu, V. *Association Between Body Mass Index and Suicidal Thoughts and Attempts Among US Adolescents,* American College of Epidemiology Annual Meeting. (2012). Chicago, Illinois.

***Media and Interviews***

\*1. The Pulse, a weekly health and science podcast. May 14, 2021. Sacred tobacco and American Indians, tradition and conflict. https://whyy.org/segments/keep-it-sacred-smoking-indigenous-people-tradition-and-conflict/

\*2. Minnesota Daily. “UMN researcher collaborates with American Indian tribes working toward smoking cessation “ February 25, 2021. <https://mndaily.com/265843/news/umn-researcher-collaborates-with-american-indian-tribes-working-toward-smoking-cessation/>

 3. WalletHub. “The Real Cost of Smoking by State.” January 13, 2021. [https://wallethub.com/edu/the-](https://wallethub.com/edu/the-financial-cost-of-smoking-by-state/9520) [financial-cost-of-smoking-by-state/9520](https://wallethub.com/edu/the-financial-cost-of-smoking-by-state/9520)

# TEACHING

**Guest Lecturer**

***University of Minnesota***

|  |  |  |
| --- | --- | --- |
| **Semester and Year** | **Course Number, Title** | **Role** |
| \*Spring 2021 | PubH 6387: Cancer Epidemiology | *Addressing smoking-related cancers through epidemiology and community-based participatory research* |
| Fall 2020 | PubH 6074/JOUR 5541: Mass Communication and Public Health | *Community Based Interventions* |
| Fall 2020 | PubH 8120: Occupational and Environmental Health and Safety Seminar | *Combating Smoking Disparities through Epidemiology and Community Engagement* |
| Fall 2020 | PubH 6162: Biomarkers | *Community-Based Participatory Research* |
| Spring 2020 | PubH 6242: Cultural Humility with American Indian Populations | *Cultural Humility in Research* |
| Spring 2020 | PubH 6243: American Indian Research, Evaluation & Collaborations | *Community-Based Participatory Research* |
| Fall 2019 | PubH 6162: Biomarkers | *Community-Based Biomarkers Research with Vulnerable Populations* |

***University of Pennsylvania***

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| **Year** | **Course Number, Title** | **Role** |
| \*Spring 2021 | Utilizing Mixed Methods in Health Communication Research | *Community-Based Participatory Research: Best Practices and Lessons Learned* |

***Langston University School of Nursing and Health Professions***

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| **Year** | **Course Number, Title** | **Role** |
| 2016 | Introduction to Public Health | Public Health Research Methods and Statistics |

***University of Oklahoma Health Sciences Center***

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| **Year** | **Course Number, Title** | **Role** |
| 2018 | CPH 7633: Public Health Strategies for Tobacco Control |  *Genetics and Smoking* |
| 2017 | BSE 6192: Grant Writing Skills in Epidemiology | *NIH Dissertation Grants* |
| 2017 | BSE 5001: Problems in Biostatistics and Epidemiology | *Measures of Association* |
| 2016 | BSE 5001: Problems in Biostatistics and Epidemiology | *Measures of Association and Confounding*  |
| 2016 | CPH 7633: Public Health Strategies for Tobacco Control | *Genetics and Smoking* |
| 2015 | BSE 6363: Cancer Epidemiology and Prevention | *Lung Cancer Epidemiology, Prevention, and Treatment* |
| 2015 | BSE 5113: Principles of Epidemiology | *Standardization* |
| 2015 | BSE 5001: Problems in Biostatistics and Epidemiology | *Measures of Association and Confounding*  |
| 2015 | Intermediate Epidemiology | Teaching Assistant |

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**COMMUNITY ENGAGED TEACHING**

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| \* Guest presenter, American Indian Cancer Foundation Journal Club, Article “Balancing Consideration of the Risks and Benefits of E-Cigarettes”, | 2021 |

# PROFESSIONAL DEVELOPMENT ACTIVITIES

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| \* Promoting Indigenous Research Leadership (PIRL), Montana State University  | 2021 |
| Jr. Faculty Peer-Supported Grant Writing Group, University of Minnesota School of Public Health | 2021 |
| Proposal Preparation Program (P3), University of Minnesota, Academic Health Center | 2020 |
| Health Equity Leadership & Mentoring Program, University of Minnesota | 2020 |
| University Teaching/Learning Program, "Preparing Future Faculty Program," University of Minnesota | 2018 |

**ADVISING AND MENTORING**

***Graduate Student Activities***

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Degree | Role | Year finished  |
| \*MacKenzie Differding | MPH | Academic Advisor | Active |
| \*Gregory Goodwine | MPH | Academic Advisor | Active |
| \*Paige Trisko  | MPH | Academic Advisor | Active |
| Laura Dick | MPH  | Project advisor and committee member | 2020 |
| Ran Zhao | PhD  | Committee Member | Active |
| Chuyu Deng | PhD | Committee Member | Active |
| Aleksandra Alcheva | PhD | Committee Member | Active |

***Undergraduate Students Activities***

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| \*MacKenzie Differding, Undergraduate Psychology Capstone Requirement at University of Minnesota | 2020 |
| \*Ashley Gao, Research Paper for Physiology Majors (PHSL 3062W) |  2020 |

***Professional Student Activities***

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| --- | --- |
| Tobacco Research Programs Student Mentorship Alana Goodson, Camryn Franke, Taylor Hammonds, UMN | 2017 - 2019 |

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# SERVICE

**Service to the Discipline/Profession/Interdisciplinary Area(s)**

***NIH study section***

\*NARCH 2021

***Abstract Reviewer***

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| Society for Epidemiologic Research Annual Conference | 2018 |
| Society for Research on Nicotine and Tobacco Annual Conference | 2017-2020 |

***Journal Reviewer***

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| American Journal of Public Health | Since 2020 |
| International Journal of Environmental Research and Public Health | Since 2020 |
| Cancer Epidemiology, Prevention, and Biomarkers  | Since 2020 |
| Nicotine & Tobacco Research | Since 2019 |
| Addictive Behaviors | 2018-2020 |
| BMC Public Health | 2018-2020 |
| Journal of Addiction Medicine | 2017-2020 |
| Tobacco Regulatory Science | 2017-2020 |

***Member***

1. Scholarship and Development Subcommittee of the Society for Research on Nicotine and Tobacco (SRNT) SRNT Health Disparities Network, Operations Coordinator, 2018 - Present
2. Tobacco Centers of Regulatory Science (TCORS), Vulnerable Populations Workgroup, 2018 - 2019

***Organizer***

1. Session Co-Chair, Symposia: *Succeeding as Women in Nicotine and Tobacco Research, 2021 SRNT Conference,* 2020
2. Session Co-Chair, Symposia: *Where the Rubber Meets the Road: Culturally Tailored Tobacco Control Research and Interventions to Achieve Health Equity, 2021 SRNT Conference,* 2020

***Preparer of Briefing Notes***

Nicotine and Tobacco Research, 2018-2020

***Steering Committee Member***

\*National Tribal Tobacco Conference 2020-Present

**Service to the University/College/Department**

***University of Minnesota***

|  |  |
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| Masonic Cancer Center Community Engagement Faculty Advisory committee, member  | 2019 - Present |
| Global Health Case Competition, Center for Global Healthand Social Responsibility, Judge  | 2020 |

***School of Public Health***

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| Jr. Faculty 'Virtual' Monthly Luncheon, Co-ChairHealth Equity Faculty Networking Event, Co-Chair***Division of Environmental Health Sciences**** Diversity, Equity, and Inclusion Faculty Committee, Chair

Antiracism book club leader | 2020-20212020-20212020-20212020-2021 |

**University of Oklahoma Health Sciences Center**

***College of Public Health***

|  |  |
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| President, Biostatistics and Epidemiology Student Association | 2016 - 2017 |

***University***

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| Member, Graduate College Student Appeals Board | 2016 - 2017 |
| Student Representative |  |
| Member, Graduate Faculty Appointment Committee | 2016 - 2017 |
| Student Representative |  |
| Vice Chair, Graduate Student Association | 2015 - 2016 |
| Treasurer, Student Government Association | 2014 - 2015 |
| Senator, Graduate Student Association | 2013 - 2014 |

**Public and External Service**

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| \*American Indian Cancer Foundation Community Oversight Group (COG) Treasurer, Toastmasters International Public Speaking Club- Uptown 627 Club | 2020-Present2016 - 2017 |
|  President, Toastmasters International Public Speaking Club - Uptown 627 Club | 2015 - 2016 |
|  Vice President of Education, Toastmasters International Public Speaking Club - Uptown 627 Club | 2014 - 2015 |