# Kayla de la Haye

Curriculum Vitae
March 2019

## Business Address

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## Personal Statement

In the past eight years of my research career, as Assistant Professor of Preventive Medicine at the University of Southern California, and previously as Behavioral/Social Scientist at the RAND Corporation, I developed an innovative program of research that merges health behavioral theory, social network analysis, and systems science, to generate new understandings of how social systems impact human health. Findings emerging from my research show that social networks and health behaviors evolve in mutually dependent ways: social selection based on similarities in attributes and behaviors create social groupings with particular social and behavioral norms, and these social groups subsequently shape and reinforce behavior in ways that have profound impacts on health and wellbeing. My current work is focused on developing health interventions that integrate social networks and systems science, as well as big data and mobile health technology, to promote healthy outcomes--in particular healthy eating and weight--in priority populations.

## Education

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| Ph.D., Health Psychology, 2011 | University of Adelaide, Adelaide, Australia<br>Concentrations: health psychology, social psychology, social network analysis<br>Dissertation: The role of friends in adolescent overweight and weight-related behaviours: A social network perspective<br>Supervisors: Prof. Carlene Wilson, Dr. Philip Mohr, Prof. Garry Robins |
| Bachelor of Health Science (Hons), 2006 | University of Adelaide, Adelaide, Australia<br>Concentrations: psychology<br>Thesis: Exploring physical activity, eating behaviours, and propensity for obesity, within an adolescent friendship network<br>Supervisors: Prof. Carlene Wilson |
| Bachelor of Arts, 2004 | University of Adelaide, Adelaide, Australia<br>Concentrations: psychology, anthropology |

## Research Positions

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| 2014 - current | *Assistant Professor of Preventive Medicine (tenure-track)*<br>Keck School of Medicine, University of Southern California, Los Angeles, California<br>Faculty at the Institute for Health Promotion & Disease Prevention Research, Department of Preventive Medicine; director of the USC Center for Applied Network Analysis (CANA); and affiliate faculty member of the USC mHealth Collaboratory and the USC Center for Artificial Intelligence in Society. |
| 2010 - 2014 | *Associate Behavioral / Social Scientist*<br>RAND Corporation, Santa Monica, California<br>Role: Researcher and social networks analyst working in health promotion, disease prevention, and social psychology. Member of the RAND Applied Network Analysis and Systems Science Research Group and RAND Obesity and Obesity Policy Research Group. |
| 2009 - 2010 | *Research Assistant*<br>School of Medicine, Flinders University, Adelaide, Australia<br>Role: Pilot research and grant proposal writing for the project 'Intergenerational Influences on Family Food Practices'. |
| 2007 – 2009 | *Research Assistant*<br>CSIRO Food and Nutritional Sciences, Adelaide, Australia<br>Role: Research assistant for the 'Older people, Omega-3, and Cognitive Health Trial'. |
| 2005 – 2007 | *Research Assistant*<br>New Focus Research, Adelaide, Australia<br>Role: Qualitative and quantitative market research for public and private sector clients. |

## Honors and Awards

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| 2018 | 2018 Freeman Award, the International Network for Social Network Analysis (INSNA) bi-annual award for junior scholarship in the study of social structure |
| 2014 | Finalist (top 4), American Academy of Health Behavior Judith K. Black Early Career Research Award |
| 2013 | Brook Scholar Award, RAND Health, RAND Corporation |
| 2011 | University of Adelaide Doctoral Research Medal |
| 2011 | Franz Dalziel Prize for Thesis in Psychology, University of Adelaide |
| 2011 | Australian Psychological Society Award for Excellent Higher Degree Thesis in Health Psychology 2011 |
| 2007 - 2010 | Australian Postgraduate Award, Australian Government (AUD $73,500) |
| 2007 - 2010 | CSIRO Preventative Health Flagship Scholarship, Australia's Commonwealth Scientific and Industrial Research Organisation (AUD $21,000) |

## Professional Affiliations

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|---|---|
| 2017-current | Member, Society for Behavioral Medicine |
| 2016-current | Board Member, International Network for Social Network Analysis |
| 2015-2016 | Member, International Society of Behavioral Nutrition and Physical Activity |
| 2013-current | Full Member, American Academy of Health Behavior |
| 2010-2016 | Member, American Psychological Association, Division 8 (Society for Personality and Social Psychology) |
| 2010-current | American Psychological Association, Division 38 (Health Psychology) |
| 2008-current | Member, International Network for Social Network Analysis |
| 2005-current | Member, Golden Key International Honor Society |

## Teaching

***University of Southern California***

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|---|---|
| 2018 (Fall) | PM501: Foundations in Health Education and Promotion<br>Primary Instructor (4 units/60 hours), Masters of Public Health program |
| 2017 (Fall) | PM501: Foundations in Health Education and Promotion<br>Primary Instructor (4 units/60 hours), Masters of Public Health program |
| 2017 (Summer) | INTD 500: Responsible Conduct of Research<br>Mentor (10 hours) |
| 2016 (Fall) | PM501: Foundations in Health Education and Promotion<br>Primary Instructor (4 units/60 hours), Masters of Public Health program |
| 2016 (Spring) | HP200: Introduction to Health Promotion and Disease Prevention<br>Guest Lecture (1 hour) |
| 2015 (Fall) | PM501: Foundations in Health Education and Promotion<br>Primary Instructor (4 units/60 hours), Masters of Public Health program |
| 2015 (Spring) | PM542: Social Network Analysis<br>Guest Lecture (1 hour): *Introduction to Stochastic Actor-Based Models* |
| 2015 (Spring) | PM501: Foundations in Health Education and Promotion<br>Primary Instructor (4 units/60 hours), Masters of Public Health program |
| 2014 (Fall) | PM601: Theory in Health Behavior<br>Guest Lecture (1 hour): *Systems Science and Health* |

***Other Universities***

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|---|---|
| 2017 (Summer) | Lecturer, 4th Short Course: The Mathematical Sciences in Obesity<br>The University of Alabama at Birmingham, Birmingham, USA |
| 2007 – 2008 | Teaching Assistant/Tutor, Psychological Research Methods II (Biostatistics)<br>University of Adelaide, Adelaide, Australia |
| 2007 (fall) | Teaching Assistant /Tutor, Psychology II<br>University of Adelaide, Adelaide, Australia |

***Online Courses***

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| 2016 | Systems Science and Obesity (Coursera)<br>Course co-developer, Instructor: Social Networks and Obesity lecture<br>Link to course, Produced by Johns Hopkins Global Obesity Prevention Center |

## Student & Postdoctoral Mentorship

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|---|---|
| Postdoctoral | Jennifer Labrecque (2015-2018)<br>Postdoctoral Research Associate, University of Southern California<br>Project: Network Science of Teams |
| Graduate (doctoral) | Sydney Miller (2018-current), Ph.D. candidate, USC Department of Preventive Medicine<br>Role: Primary advisor<br><br>Ian Kim (2018-current), Ph.D. candidate, USC Department of Preventive Medicine<br>Role: Dissertation committee member<br><br>Jodie Stearns (2018), Ph.D. candidate, Dept. Kinesiology, Sport, and Recreation, University of Alberta, Canada<br>Role: Dissertation exam committee member<br><br>Suneal Kolluri (2018-current), Ph.D. candidate, USC Rossier School of Education<br>Role: committee member (qualifying exam & dissertation)<br><br>Trevor Pickering (2018), Ph.D. candidate, USC Department of Preventive Medicine<br>Role: committee member (qualifying exam & dissertation)<br><br>Daniel Chu (2018), Ph.D. candidate, USC Department of Preventive Medicine<br>Role: committee member (qualifying exam & dissertation)<br><br>Xin-Zeng Wu (2016-2018), Ph.D. candidate, USC Viterbi School of Engineering<br>Role: committee member (qualifying exam & dissertation)<br><br>Jaimie McGlashan (2016-2018), Ph.D. candidate, WHO Collaborating Center for Obesity Prevention, Deakin University, Melbourne, Australia<br>Role: External advisor<br><br>Brooke Bell (2016-current), Ph.D. candidate, USC Department of Preventive Medicine<br>Role: Dissertation committee member<br><br>Jennifer Marks (2013-2016), Ph.D. candidate, WHO Collaborating Center for Obesity Prevention, Deakin University, Melbourne, Australia<br>Dissertation: Primary to secondary school, obesity, and friendships: A systems perspective<br>Role: External associate advisor |
| Undergraduate | Directed Research trainees<br>2019: Gina Huh, Priscilla Ring<br>2018: Stacey Lau, Rohan Martin, Ammarah Shaik, Priscilla Ring, Carrier Scherder, Karoline Schenosky, Payton Timmeney<br>2017: Carrier Scherder, Neda Salami, Raina Yusufova, Danielle Shabbouei<br>2016: Amos Adeleke, Kacie Klein, Jacqueline Anderson, Taylor Harris<br>2015: Aisha Vaiyani, Amirah Dales |

## Services to the Profession

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| Peer Reviewer: Grants | USC Keck School of Medicine Dean's Pilot Funding Program, 2018<br>Cancer Research UK, United Kingdom, Ad hoc reviewer, 2018<br>Cure Kids (non-profit organization), Auckland, New Zealand, Ad hoc reviewer, 2017<br>Netherlands Organisation for Scientific Research, Ad hoc reviewer, 2017<br>Indiana Alzheimer Disease Center, Indiana University, Ad hoc reviewer, 2017<br>Medical Research Council, United Kingdom, Ad hoc reviewer, 2016<br>National Institutes of Health, Social Psychology, Personality and Interpersonal Processes [SPIP] study section, Ad hoc reviewer, 2016<br>Army Research Office, Ad hoc reviewer, 2014<br>National Science Foundation, Ad Hoc reviewer, 2013<br>Health Research Council of New Zealand, Ad Hoc reviewer, 2012 |

## Services to the Profession (cont.)

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| Editorial Board | Future Internet, Section Editor for Techno-Social Smart Systems, 2018-current<br>Connections (Official Journal of the International Network for Network Analysis), Subject Editor for Health and Social Psychology, 2014-current<br>Journal of Research on Adolescence (2013-2015) |
| Ad Hoc Peer Reviewer: Journals | American Journal of Preventive Medicine<br>American Journal of Public Health<br>Appetite<br>BMC Public Health<br>BMC Obesity<br>BMJ Open<br>British Food Journal<br>British Medical Journal<br>Canadian Journal of Agric. Economics<br>Child Maltreatment<br>Childhood Obesity<br>Comput. & Mathematical Org. Theory<br>Developmental Psychology<br>Health Psychology<br>Int. Journal of Behavioral Development<br>Int. J. of Behavioral Nutrition and Phy. Act.<br>Journal of Adolescence<br>Journal of Adolescent Health<br>Journal of Behavioral Medicine<br>Journal of Epidemiology & Comm. Health<br>Journal of Medical Internet Research<br>Journal of Obesity<br>Journal of Public Health<br>Journal of Research on Adolescence<br>Journal of Social & Clinical Psychology<br>Medicine & Science in Sports & Exercise<br>Network Science<br>Nicotine & Tobacco Research<br>Nutrition Reviews<br>Obesity<br>Obesity Reviews<br>Pediatric Obesity<br>Pediatrics<br>PLoS One<br>Prevention Science<br>Research Quarterly for Exercise and Sport<br>Social Networks<br>Social Science & Medicine<br>Sociological Methods & Research<br>Sociology of Health and Illness |
| University of Southern California | Invited panelist, *Developing independent academic research in an era of team and convergent science*, Team Science Symposium, University of Southern California, 2018<br>Member, *Master of Public Health Search Committee,* Dept. of Preventive Medicine, 2018<br>Invited panelist, *Developing independent academic research in an era of team and convergent science*, Children's Hospital Los Angeles, 2017<br>Invited panelist, *HSC Diversity Task Force Seminar: The Roads of Phenomenal Women*, Keck School of Medicine, 2017<br>Junior Faculty representative, *Liaison Committee on Medical Education (LCME) Accreditation Survey Visit*, Keck School of Medicine, 2017<br>Member, *KSOM Research Program Development Committee* (Obesity, Diabetes, Liver and Metabolic Disease), Keck School of Medicine, 2017<br>Member, *Post-doctoral Search Committee*, Dept. of Preventive Medicine, 2015-current |
| Professional service | Organizer, Food Complexity & Nutrition Workshop, Boston, 2018<br>Judge, Interdisciplinary Contest in Modeling, Consortium for Mathematics and Its Applications (COMAP), 2018, 2017, 2016, 2013<br>Invited Contributor, Army Research Office Network Science Strategy Planning Meeting, Army Research Laboratory, 2017<br>Lead Organizer, International Network for Social Network Analysis (INSNA) Annual "Sunbelt" Conference, 2016<br>Invited Contributor, Army Research Office Network Science Strategy Planning Meeting, Army Research Laboratory, 2014 |

## Refereed Journal Articles

1. **de la Haye, K**., Bell, B., Salvy, S.J. (In press). The role of maternal social networks on the outcomes of a home-based childhood obesity prevention pilot intervention. *Journal of Social Structure (Special issue: Social Networks & Health).*
2. Bell, B, Spruijt-Metz, D, Vega Yon, G, Mondon, AS, Alam, R, Ma, M, Emi, I, Lach, J, Stankovic, J, **de la Haye, K**. (In press). Sensing eating mimicry among family members. *Translational Behavioral Medicine.*
3. **de la Haye, K.,** Fluke, M., Chandler-Laney, P., Goran, M., Chou, C-P. Galama, T., Salvy, S.J. (2019). In-home obesity prevention to reach low-income infants through maternal and social transmission. *Contemporary Clinical Trials, 77,* 61-69.
4. Marks, J., **de la Haye, K**. Barnett, L., Allender, S. (2018). Personal network characteristics as predictors of change in obesity risk behaviors in early adolescence. *Journal of Research on Adolescence.* doi: 10.1111/jora.12407 [Epub ahead of print]
5. Zhang, S., **de la Haye, K**., Mengmeng, J., An, R. (2018). Applications of social network analysis to obesity: A systematic review. *Obesity Reviews, 19*(7), 976-988*.*
6. Pollard, M.S., Tucker, J.S., Green, H.D., **de la Haye, K.,** Espelage, D. (2018). Adolescent peer networks and the moderating role of depressive symptoms on developmental trajectories of cannabis use. *Addictive Behaviors, 76*, 34-40.
7. Merrin, G.J., **de la Haye, K.**, Espelage, D.L., Ewing, B., Tucker, J., Hoover, M., Green, H.D. (2018).The co-evolution of bullying perpetration, homophobic teasing, and a school friendship network. *Journal of Youth and Adolescence, 47*(3) 601-618*.*
8. **de la Haye, K.**, Dijkstra, J.K., Lubbers, M.J., van Rijsewijk, L., Stolk, R. (2017). The dual role of friendship and antipathy relations in the marginalization of overweight children in their peer networks: The TRAILS Study. *PLOS One*, *12*(6): e0178130.
9. **de la Haye, K.,** Embree, J., Punkay, M., Espelage, D.L., Tucker, J.S., Green, H.D. (2017). Analytic strategies for longitudinal networks with missing data. *Social Networks,* 50, 17-25.
10. Salvy, S.J., **de la Haye, K.,** Galama, T., Goran, M. (2017). Home visitation programs: An untapped opportunity for the delivery of early childhood obesity prevention. *Obesity Reviews, 18,* 149-163.
11. de Heer, H.D., **de la Haye, K.,** Skapinsky, K., Goergen, A., Wilkinson, A. & Koehly, L.M. (2017). Let's move together: Impact of family health history information on encouragement and co-engagement in physical activity of Mexican origin parents and children. *Health Education and Behavior, 44,* 141-153.
12. Allender, S., Millar, L., Hovmand, P., Bell, C., Moodie, M., Carter, R., Swinburn, B., Strugnell, C., Lowe, J., **de la Haye, K.,** Orellana, L., Morgan, S. (2016). Whole of systems trial of prevention strategies for childhood obesity: WHO STOPS Childhood Obesity. *Int. J. Environ. Res. Public Health*, *13*(11), 1143
13. McGlashan, J., Johnstone, M., Creighton, D., **de la Haye, K.,** Allender, S. (2016). Quantifying a systems map: Network analysis of a childhood obesity causal loop diagram. *PLoS ONE, 11*(10), e0165459
14. Wilson, C.J., **de la Haye, K.,** Coveney, J., Hughes, D.L., Hutchinson, A., Miller, C., Prichard, I., Ward, P., Koehly, L.M. (2016). Protocol for a randomized controlled trial testing the impact of feedback on familial risk of chronic diseases on family-level intentions to participate in preventive lifestyle behaviors. *BMC Public Health, 16*, 965.
15. Tsai, J., Valente, T.W., Miller, K.A., **de la Haye, K.,** Pickering, T.A., Cockburn, M.G. (2016). Friendship networks and sun safety behavior among children. *Network Science, 4*(3), 314-335.
16. Flórez, K.R., Ghosh-Dastidar, M., Beckman, R., **de la Haye, K.,** Duru, K., Abraido-Lanza, A., Dubowitz, T. (2016). The power of place: Social network characteristics, perceived neighborhood features, and psychological distress among African Americans in the historic Hill District in Pittsburgh, Pennsylvania. *American Journal of Community Psychology, 58*(1-2), 60-68 *.*
17. Marks, J., **de la Haye, K.,** Barnett, L.M., & Allender, S. (2015). Friendship network characteristics are associated with physical activity and sedentary behavior in early adolescence. *PLoS One, 10*(12), e0145344.

## Refereed Journal Articles (cont.)

18. Tucker, J. S., Ewing, B., Pollard, M., **de la Haye, K.,** Espelage, D., Green, H. D. (2016). Longitudinal associations of homophobic name-calling victimization with psychological distress and alcohol use during adolescence. *Journal of Adolescent Health, 59*(1), 110-115.
19. **de la Haye, K.**, Green., H. D., Pollard, M., Kennedy, D. P., Tucker, J. S. (2015). Befriending risky peers: Factors driving adolescents' selection of friends with similar marijuana use. *Journal of Youth and Adolescence, 44*(10), 1914-1928*.* PMID: 25365913
20. Pollard, M.S., Tucker, J.S., **de la Haye, K.,** Green, H.D. Jr., Kennedy, D.P. (2014). A prospective study of marijuana use change and cessation among adolescents. *Drug & Alcohol Dependence*, *144*, 134-140. PMC4252517.
21. **de la Haye, K.,** D'Amico, E. J., Miles, J. N. V., Ewing, B., Tucker, J. S. (2014). Covariance among multiple health risk behaviors in adolescents. *PLOS One, 9*(5), e98141.
22. Tucker, J. S., **de la Haye, K.,** Pollard, M., Green, H. D. Jr., Kennedy, D. R. (2014). Peer influence on marijuana use in different types of friendships. *Journal of Adolescent Health*, *54*(1), 67-73.
23. **de la Haye, K.**, De Heer, H.D., Wilkinson, A.V., Koehly, L. (2014). Predictors of parent-child relationships that support physical activity in Mexican-American families. *Journal of Behavioral Medicine, 37*(2), 234-244.
24. **de la Haye, K.** (2013). RE: 'Are network-based interventions a useful antiobesity strategy?'. *American Journal of Epidemiology, 178*(5), 837-838.
25. Arney, C., **de la Haye, K.,** Wang, J. (2013). Judges' commentary: Modeling earth's health. *UMAP Journal, 34* (2-3).
26. **de la Haye, K.**, Robins, G., Mohr, P., & Wilson, C. (2013). Adolescents' intake of junk food: Processes and mechanisms driving consumption similarities among friends. *Journal of Research on Adolescence,* 23(3),524-536.
27. **de la Haye, K.**, Green, H. D. Jr., Kennedy, D. R., Pollard, M., & Tucker, J. S. (2013). Selection and influence mechanisms associated with marijuana initiation and use in adolescent friendship networks. *Journal of Research on Adolescence, 23*(3), 474-486.
28. Green, H. D. Jr., **de la Haye, K.,** Tucker, J. S., Golinelli, D. (2013). Shared risk: Who engages in substance use with homeless youth? *Addiction*, *108*(9), 1618-1624
29. Green, H.D., Jr., **de la Haye, K.,** Tucker, J. S. (2013). Response to Rice & Rhoades. *Addiction, 108*(9), 1625-1626.
30. Tucker, J. S., Pollard, M. S., **de la Haye, K.,** Kennedy, D. P., Green Jr., H. D. (2013). Neighborhood characteristics and the initiation of marijuana use and binge drinking. *Drug and Alcohol Dependence, 128*(1-2), 83-89.
31. Green, H. D. Jr., Horta, M., **de la Haye, K.,** Tucker, J. S., Kennedy, D. R., Pollard, M. (2013). Peer influence and selection processes in adolescent smoking behavior: A comparative study. *Nicotine & Tobacco Research, 15*(2), 534-541
32. **de la Haye, K.,** Green, H. D. Jr., Kennedy, D., Zhou, A., Golinelli, D., Wenzel, S., Tucker, J. S. (2012). Who is supporting homeless youth? Predictors of support in personal networks. *Journal of Research on Adolescence 22*(4), 604-616.
33. Salvy, S.-J., **de la Haye, K**., Bowker, J.C., & Hermans, R.C.J. (2012). Influence of peers and friends on children's and adolescents' eating and activity behaviors. *Physiology & Behavior, 106*(3), 369-378.
34. **de la Haye, K.**, Robins, G., Mohr, P., Wilson, C. (2011). Homophily and contagion as explanations for weight similarities among adolescent friends. *Journal of Adolescent Health, 49*, 421-427.

## Refereed Journal Articles (cont.)

35. **de la Haye, K.**, Robins, G., Mohr, P., Wilson, C. (2011). How physical activity shapes, and is shaped by, adolescent friendships. *Social Science & Medicine, 73,* 719-728.
36. **de la Haye, K.**, Robins, G., Mohr, P., Wilson, C. (2010). Obesity-related behaviors in adolescent friendship networks. *Social Networks, 32*(3), 161-167.

## Published Conference Proceedings (peer reviewed)

1. Wilder, B., **de la Haye, K**., Ching, H., Tambe, M. (2018) Optimizing network structure for preventative health. *17th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2018).*
2. Hunter, R. F., **de la Haye, K.**, Badham, J., Valente, T., Clarke, M., & Kee, F. (2017). Social network interventions for health behaviour change: a systematic review [abstract]. *The Lancet*, *390*, S47.
3. Ma, M., Alam, R., Bell, B., **de la Haye, K**., Spruijt-Metz, D., Lach, J., Stankovic, J. (2017). M2G: A monitor of monitoring systems with ground truth validation features for research-oriented residential applications. *2017 IEEE 14th International Conference on Mobile Ad Hoc and Sensor Systems (MASS)*, pp. 10-18.
4. Salekin, A., Chen, Z., Ahmed, M. Y., Lach, J., Metz, D., **de la Haye, K.**, ... & Stankovic, J. A. (2017). Distant emotion recognition. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, *1*(3), p. 96.
5. Spruijt-Metz, D., **de la Haye, K**., Lach, J., Stankovic, J.A. (2016). M2FED: Monitoring and modeling family eating dynamics. *14th ACM Conference on Embedded Network Sensor Systems*, pp. 352-353.

## Book Chapters

**de la Haye, K.,** Salvy, S.-J. (2016). Social network effects on childhood obesity. *Childhood Obesity: Causes, Consequences and Intervention Approaches* (M. Goran). CRC Press.

Salvy, S.J., **de la Haye, K.** (2016) Home/family-based obesity interventions and prevention efforts in infancy and early childhood. *Childhood Obesity: Causes, Consequences and Intervention Approaches* (M. Goran). CRC Press.

## Unpublished Research Reports

Navarro, D. J., **de la Haye, K.** & Stephens, R.G. (2007). *Methods, measures and models in social network analysis.* Report for Defence Research & Development Canada. March 2007. (63 pages, not peer reviewed).

## Manuscripts Under Review

**de la Haye, K.**, Shin, H., Vega Yon, G. Valente. T. (Revise & Resubmit). Smoking diffusion through networks of diverse, urban American adolescents over the high school period.

McGlashan, J, **de la Haye, K,** Wang, P, Allender, S. (Under review). Collaboration in complex systems: Multilevel network analysis for community-based obesity prevention interventions.

Labrecque, J., Kim, Y.J., Malone, T., & **de la Haye, K.** (Under review). Social intelligence and social networks predict group performance.

Manalel, J., Marcum, C. S., Calabrese, S., **de la Haye, K**., Hughes, D., Prichard, I., ... & Koehly, L. M. (Under review). Intergenerational exchange of health encouragement: Consideration of ancestry and disease risk.

Allender, S., Crooks, N, Orellana, L., Bolton, K., Fraser, P., Brown, A., Lowe, J., **de la Haye, K.**, Millar, L., Moodie, M.M., Swinburn, B.A., Bell, C., Strugnell, C. (Under review). Promising behavioural and BMI outcomes within the first two years of a 5-year Cluster Randomized Stepped Wedge Whole of Systems Trial of Prevention Strategies for Childhood Obesity (WHOSTOPS Childhood Obesity).

Hunter, R., **de la Haye, K**., Murray, J.M., Badham, J., Valente, T.W., Clarke, M., Kee, F. (Under review). Social network interventions for health behaviours and outcomes: A systematic review and meta-analysis.

Gesell, S, Barkin, SL, Ip, EH, Saldana, SJ, Sommer, EC, Valente, TW, **de la Haye, K**. (Under review). Promoting social networks to reduce sedentary behavior in low-income parents with pre-school-aged children.

## Invited Scientific Presentations

2019, *Leveraging social networks to promote healthy eating.* University of Southern California, Annenberg Networks Network, Los Angeles, U.S.A.

2019, *Promoting healthy eating and activity using social networks.* University of Utah, College of Nursing, Salt Lake City, U.S.A.

2018, *Preventing obesity using family and community social networks.* University of Alberta, Department of Kinesiology, Sport, and Recreation, Edmonton, Canada.

2018, *Preventing Obesity Using Family and Community Social Networks,* Network Interventions for the Social Good Workshop, International Conference on Complex Systems (ICCS), Boston, MA, USA

2018, *Preventing obesity using family and community social networks.* Vrije Universiteit Amsterdam, Institute of Health Sciences, Amsterdam, the Netherlands.

2018, *Monitoring & modeling family eating as a complex social system*. USC mHealth Collaboratory's Inaugural Mobile/Connected Health Symposium, Los Angeles, CA, USA

2018, *Using network science for health promotion & disease prevention.* Brain Awareness Week, Azusa Pacific University, Azusa, CA, USA

2018, *The social contagion of obesity: Understanding mechanisms, developing network interventions,* CompleNet '18, Boston, MA, USA

2018, *Leveraging social networks in health promotion: The case of obesity.* Brown University, School of Public Health Colloquia-Science Series, Providence, RI, USA

2017, *Social network interventions for obesity prevention*, Children's Hospital Los Angeles Division of Adolescent and Young Adult Medicine Grand Rounds, Los Angeles, USA

2017, *Harnessing social networks and social systems for obesity prevention*, City University New York School of Public Health Center for Systems and Community Design, New York, USA

2017, *Harnessing social networks and social systems for obesity prevention*, UCLA California Center for Population Research Seminar, University of California Los Angeles, Los Angeles, USA

## Invited Scientific Presentations (cont.)

2017, *Harnessing social networks to promote healthy eating and prevent obesity*, Northeastern University Network Science Institute, Boston, USA

2017, *Harnessing social networks and social systems for obesity prevention*, University of Southern California Diabetes & Obesity Research Institute (DORI) 4th Annual Research Symposium, Los Angeles, USA

2017, *Social network interventions for health promotion*, University of Southern California Center for Artificial Intelligence in Society, Los Angeles, USA

2016, *Innovations in childhood obesity prevention through home visitation: Reaching at-risk, priority populations.* University of Southern California Immigrant Health Initiative Retreat, Marina del Rey, USA

2016, *Obesity and social network dynamics*. ISAT Symbiotic Architectures for Social Simulation Workshop, University of Southern California, Los Angeles, USA

2016, *Health promotion and disease prevention in social systems*, Department of Psychology Seminar Series, University of Southern California, Los Angeles, USA

2015, *Social influence to prevent obesity: The power of peer networks*, Obesity Week 2015, Los Angeles, USA

2015, *Harnessing social network dynamics for obesity prevention*, WHO Collaborating Center for Obesity Prevention, Deakin University, Melbourne, Australia

2015, *Health promotion and disease prevention in social systems*, Department of Computer Science & Biomolecular Science and Engineering Seminar Series, University of California at Santa Barbara, Santa Barbara, USA

2014, *No child is an island: Why addressing social networks is critical for childhood obesity interventions*, USC Chan Division of Occupational Science and Occupational Therapy Department Seminar, University of Southern California, Los Angeles, USA

2014, *Health promotion and disease prevention in social systems*. Summer Seminar on Networks and Health, National Institutes of Health, Bethesda, USA

2013, *Insights into social influences on food choice and obesity using social network analysis*. Summer Seminar on Networks and Health, National Institutes of Health, Bethesda, USA

2011, *Adolescent obesity in a social context: The role of friendship networks*, Penn State University Prevention Research Center Seminar, Penn State University, State College, USA

2009*, Is obesity 'socially contagious'? Exploring the interdependence of social networks and health*, CSIRO Preventative Health Flagship Retreat, Sydney, Australia

2009, *The interdependence of social networks and health: some examples*, CSIRO Complex Systems Science Workshop: Human Systems Dynamics, Brisbane, Australia

## Scientific Presentations (select)

**de la Haye, K.**, Labrecque, J., Kim, Y.J., Malone, T. (2018). Social smarts shape social networks and collective intelligence. *XXXVIII Sunbelt Conference of the International Network for Social Network Analysis*, Utrecht, the Netherlands.

**de la Haye, K.**, Shin, H., Vega Yon, G. Valente. T. (2018) Smoking among diverse, urban American adolescents during high school. *Society for Behavioral Medicine Annual Meeting,* New Orleans, USA

**de la Haye, K.**, Labrecque, J., Kim, Y.J., Malone, T. (2017). Social smarts shape social networks. *North American Social Networks (NASN) Conference*, Washington, D.C., USA

**de la Haye, K.,** Salvy, S.-J. (2017). Social network influences in a home-based childhood obesity prevention program. *Society for Behavioral Medicine Annual Meeting,* San Diego, USA

## Scientific Presentations (select, cont.)

**de la Haye, K.,** Labrecque, J., Kim, Y.J., Malone, T. (2017). Social networks and social intelligence explain collective intelligence in groups. *XXXVII Sunbelt Conference of the International Network for Social Network Analysis*, Beijing, China.

**de la Haye, K.**, Labrecque, J. (2017). Social network dynamics: Bridging individual and collective social factors in group performance. *Society for Personality and Social Psychology Annual Convention,* San Antonio, USA

**de la Haye, K.,** Labrecque, J., (2016). Integrating theories of health behavior, social networks, and systems science. *XXXVI Sunbelt Conference of the International Network for Social Network Analysis*, Newport Beach, USA

**de la Haye, K.**, Salvy, S.-J., (2015). Health support networks for preventing childhood obesity in home visitation programs. *Global Obesity Prevention Center Seminar*, Johns Hopkins University, Baltimore, USA

**de la Haye, K.**, Salvy, S.-J., (2015) Health support networks for preventing childhood obesity in home visitation programs. *XXXV Sunbelt Conference of the International Network for Social Network Analysis*, Brighton, United Kingdom.

**de la Haye, K.**, Wilson, C., Koehly, L., (2015). Families SHARE: Activating social networks to promote healthy diets and reduce disease risk. *International Society for Behavioral Nutrition and Physical Activity (ISBNPA) Meeting,* Edinburgh, Scotland.

Salvy, S.-J., **de la Haye, K.,** Frick, M., (2015). Health support networks for preventing childhood obesity in home visitation programs. *Society for Research on Child Development Biennial Meeting*, Philadelphia, USA

**de la Haye, K.,** D'Amico, E.J., Miles, J.N.V., Ewing, B., Tucker, J.S., (2014). Covariance among multiple health risk behaviors in adolescents. *American Academy of Health Behavior Biennial Meeting*, Charleston, USA

**de la Haye, K.,** Salvy, S.-J., (2014). Social network science: A unique perspective for understanding and addressing childhood obesity. *American Academy of Health Behavior Biennial Meeting*, Charleston, USA

**de la Haye, K.,** Espelage, D., Hoover, M., Wasserman, S., Green, H., (2014). Differences in friendship network dynamics for bullying perpetration and homophobic bullying perpetration. *Society for Research on Adolescence Biennial Meeting*, Austin, USA

**de la Haye, K.,** (2013). Insights from social network analysis for understanding social influence on eating behavior. *25th Association for Psychological Science Annual Convention*, Washington, D.C., USA

**de la Haye, K.,** Green, H.D., Pollard, M., Kennedy, D.R., Tucker, J.S., (2013). Social networks within socio-ecological systems: Multi-level predictors of adolescent substance use in dynamic social networks. *Scientific Meeting of the American Academy of Health Behavior,* Santa Fe, USA

**de la Haye, K.,** Green, H.D., Kennedy, D.R., Pollard, M., Tucker, J.S., (2012). Peers and pot: Selection and influence mechanisms associated with marijuana use in two adolescent friendship networks. *Sunbelt XXXI International Sunbelt Social Network Conference*, Redondo Beach, USA

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2012). Junk food intake in adolescents: Processes and mechanisms driving consumption similarities among friends. *Society for Research on Adolescence Biennial Meeting*, Vancouver, Canada.

**de la Haye, K.**, Green, H.D., Kennedy, D.R., Pollard, M., Tucker, J.S., (2012). Peers and pot: Selection and influence mechanisms associated with marijuana use in adolescent friendship networks. *Society for Research on Adolescence Biennial Meeting*, Vancouver, Canada.

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2011). The moderating role of physical activity on adolescents' weight-based friendship choices. *Society for Research in Child Development Biennial Meeting*, Montreal, Canada.

**de la Haye, K.**, Dijkstra, J.K., Stolk, R., (2011). Integration or marginalization. The importance of class norms in friendship relations of overweight children. The TRAILS study. *Society for Research in Child Development Biennial Meeting,* Montreal, Canada.

## Scientific Presentations (select, cont.)

**de la Haye, K**, Robins, G, Mohr, P, Wilson, C, (2011). Social snacking: Friends' influence on adolescent junk food intake. *Sunbelt XXXI International Sunbelt Social Network Conference*, St. Pete, USA

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2010). The development of physical activity behaviours, attitudes, and social norms in an adolescent friendship network. *Society for Research on Adolescence Biennial Meeting*, Philadelphia, USA

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2010). Weight status: An important feature of adolescent friendships. *Society for Research on Adolescence Biennial Meeting*, Philadelphia, USA

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2009). Birds of a feather: Adolescent girls with similar BMIs tend to flock together. *Sunbelt XXIX International Sunbelt Social Network Conference*, San Diego, USA

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2008). Obesity and related behaviours within adolescent friendship networks. *Population Health Congress*, Brisbane, Australia.

**de la Haye, K.**, Robins, G., Mohr, P., Wilson, C., (2008). Obesity in a social context: Physical activity, eating behaviors, and propensity for obesity within adolescent friendship networks. *Sunbelt XXVIII International Sunbelt Social Network Conference*, St. Pete Beach, USA

## Research Support: Active

W911NF1810243 (PI: de la Haye) 05/29/2018 - 05/28/2019
Army Research Office/DoD Defense University Research Instrumentation Program 0% effort

**Observational System for Monitoring and Modeling Group Social Dynamics**

This grant provides support for equipment to establish a new Group Social Dynamics Lab, which will house a state-of-the art observational system to conduct both laboratory and field-based studies of social dynamics among groups and teams.

Role: Primary Investigator
Total Costs (annual):$122,711

1R01HD092483-01 (PIs: de la Haye, Salvy) 09/01/2017 - 05/31/2022
NIH/NICHD 25% effort

**In-Home Obesity Prevention to Reach Low-Income Infants Through Maternal and Social Transmission**

This study capitalizes on the strengths and interests of established Home Visitation Programs, which serve at-risk, low-income, diverse mothers and their infants, to test a weekly, in-home evidence-based childhood obesity prevention model delivered in the first 2 years of children's life. This project represents a unique opportunity to test an innovative model of primary childhood obesity prevention that targets important maternal and social network mechanisms.

Role: Primary Investigator (contact PI)
Total Costs (annual):$599,782

R01HD084606 (PI: Gesell / USC Site PI: de la Haye) 02/18/2016 - 01/31/2019
NIH/NICHD 10% effort

**Building Social Networks to Improve Physical Activity and Weight Loss in Latino Parents**

This project examines the complex relationship between social networks and peer influences on Latino adult physical activity and obesity in order to understand which types of networks facilitate (and which constrain) the diffusion of physical activity and weight loss through a community.

Role: Co-Investigator (USC Site PI)
Total Costs (annual): $213,565

## Research Support: Active (cont.)

APP1114118 (PI: Allender) 02/01/16-01/31/19
National Health and Medical Research Council

**Whole of Systems Trial of Prevention Strategies for Childhood Obesity: WHO STOPS Childhood Obesity**

This project aims to: 1) strengthen community action for childhood obesity prevention; and, 2) measure the impacts of increased action on risk factors for childhood obesity by working with local partners to embed best practice for obesity prevention into existing community systems (e.g. health, workplaces, local council, schools).

Role: Associate Investigator
Total Costs (annual): AUD $1,204,688

IIS-1521740 (PI: Spruijt-Metz) 09/01/15 - 08/30/19
National Science Foundation 10% effort

**Monitoring and Modeling Family Eating Dynamics (M2FED)**

This project proposes M2FED – an integrated system of in-home beacons, wireless and wearable sensors, and smartphones that provide ongoing, synchronized real-time data on in-home eating behaviors and theory-based process variables. This rich data will be aggregated to generate real-time contextual FED models using systems networks models. Key activities that precede target behaviors will be identified in order to develop and optimize future just-in-time, adaptive interventions.

Role: Co-Primary Investigator
Total Costs (annual): $425,000

W911NF-15-1-0577 (PI: Singh / USC Site PI: de la Haye) 01/09/15 - 30/08/20
Army Research Office/Department of Defense 25% effort

**QUANTA: Quantitative Network-based Models of Adaptive Team Behavior**

The multidisciplinary, multi-institutional team will utilize expertise in cognitive and behavioral science, sociology, computer science, and network science to generate multilevel, dynamic models of teams and social groups that effectively explain various dimensions of group performance. The resulting conceptual and statistical models that relate group composition, interaction patterns, and network evolution to task performance, will break new ground in understanding the optimal design of teams for complex tasks.

Role: Co-Primary Investigator
Total Costs (annual): $1,253,000

## Research Support: Past (select)

1R01CA157577-01A1 (PI: Valente) 05/01/12 - 03/31/17
NIH/National Cancer Institute 10% effort

**The Global Diffusion of Tobacco Control**

This study compiles extensive network data from GLOBALink, an electronic forum for global tobacco advocacy, to construct multiple social networks used to estimate network effects in a dynamic modeling framework. We study network influences on the diffusion and adoption of the Framework Convention for Tobacco Control.

Role: Co-Investigator
Total Direct Costs (annual):$320,000

W911NF-16-1-0066 (PI: de la Haye) 02/01/16-01/31/17
Army Research Office/Department of Defense 0% effort

**2016 International Network for Social Network Analysis "Sunbelt" Conference**

This grant supports the XXXVI "Sunbelt" Conference of the International Network for Social Network Analysis (INSNA). This annual conference is a six-day event that rotates between North America and Europe to bring together multidisciplinary researchers and practitioners to present and discuss current work in the area of social networks.

Role: Primary Investigator
Total Direct Costs: $14,286

## Research Support: Past (select, cont.)

5U54HD070725-03 (PI: de la Haye) 01/11/14 – 12/30/16
NIH/NICHD/Johns Hopkins University 5% effort

**Health Support Networks for Prevention Childhood Obesity in Home Visitation Programs**

This pilot study evaluates the health support networks of low-income mothers with young children who are enrolled in home visitation services, and the role these networks play in supporting health behavior change and preventing childhood obesity.

Role: Primary Investigator
Total Direct Costs: $30,000

R01DA033280-01 (PI: Green / USC Site PI: de la Haye) 04/15/12-10/31/16
NIH/NIDA 18% effort

**Social Network Effects in the Context of Adolescent Risk Behaviors**

This project investigates how adolescents' peer networks influence their use of alcohol and other drugs, as they transition from middle school to the end of high school. We compare egocentric and sociocentric approaches to collecting and analyzing social network data.

Role: Co-Investigator (USC Site PI)
Total Direct Costs (annual): $534,666

W911NF-12-1-0176 (PI: Wasserman) 05/12 – 12/14
US Army Research Office / Department of Defense 10% effort

**Systematic Investigation of the Effects of Missing Data on Statistical Models for Networks**

The goal of this project is to understand the impact of missing data on statistical models for social networks.

Role: Co-Investigator

R01DA030380 (PI: Tucker) 09/10 – 02/14
NIH/NIDA 20% effort

**The Role of Peer Networks in Youth Drug Use**

The goal of this project is to use longitudinal data from Add Health to examine peer influence and peer selection effects on youth drug use using multiple, complementary analytic approaches.

Role: Co-Investigator
Total Direct Costs (annual): $259,200

Intergovernmental Personnel Act (PI: Koehly) 04/13 – 12/13
NIH/NHGRI 30% effort

**The Role of The Family Genetics Health Educator in Influencing Health Promoting Behaviors**

This IPA is a collaboration with Dr. Koehly's lab on the development of Families SHARE, a family health history tool. Dr. de la Haye led an evaluation of this tool focused on change in family health systems within an African American, under-resourced community.

Role: Co-Investigator

R21CA157571 (PI: Vardavas) 03/11 – 02/13
NIH/NCI 7% effort

**Health Outcomes, Risk Perceptions, and Preventative Behavior on Social Networks**

This project investigates how people evaluate the relative risks of engaging or not engaging in preventative health behavior, using information they have gathered through their social network.

Role: Co-Investigator
Total Direct Costs (annual): $259,687

## Research Support: Past (select, cont.)

1R01CA157577-01A1 (PI: Valente) 05/01/12 - 03/31/17
NIH/National Cancer Institute 10% effort

**The Global Diffusion of Tobacco Control**

This study compiles extensive network data from GLOBALink, an electronic forum for global tobacco advocacy, to construct multiple social networks used to estimate network effects in a dynamic modeling framework. We study network influences on the diffusion and adoption of the Framework Convention for Tobacco Control.

Role: Co-Investigator
Total Direct Costs (annual):$320,000

R21AA017946-01 (PI: Pollard) 03/10 – 08/12
NIH/NIAAA 10% effort

**Friendship Networks and Alcohol Use in Adolescence and Young Adulthood**

This project applies a new method of social network analysis to study youth drinking behavior from adolescence into young adulthood and its determinants across gender and racial/ethnic groups.

Role: Co-Investigator
Total Direct Costs (annual): $331,121

R01DA020351 (PI: Tucker) 10/10 – 03/12
NIH/NIDA 15% effort

**Drug Use, Social Context, and HIV Risk in Homeless Youth**

The major goal of this study is to investigate the social context of drug use and high-risk sexual behavior in a probability sample of homeless youth (ages 13-23) in Los Angeles County.

Role: Co-Investigator
Total Direct Costs (annual): $866,251

## Media Features (select)

***Television***

2017, *Overweight kids have more 'frenemies,' USC study finds*, ABC 7 Eyewitness News.

2017, *Live to air interview on study of overweight youth having fewer friends,* Canadian Television (CTV) News June 7.

***Radio***

2018, Obesity + Home Visitation, Public Health Minute with William Latimer.

***Print and Online***

2018, *How artificial intelligence can help us eat better*, USC News

2018, *You are what your friends eat*, USC Viterbi School of Engineering News.

2017, *1 in 5 children in the U.S. enter school overweight or obese, researchers find*, USC News.

2017, *Obese children likely to have fewer friends, bullied more often*, International Business Times.

2017, *When kids are fat, they are less likely to have friends, study finds,* Newsweek.

2017, *The children most likely to be bullied by their own friends*, CNN Health.

2017, *Making fun of fat kids will make them fatter*, New York Post.

2017, *Los niños con sobrepeso resultan más excluidos de las amistades*, El Economista (Spain).

2017, *Fat-shaming means overweight children really do have fewer friends, are more disliked than their thinner schoolmates and are being turned into social outcasts, claim experts*, Daily Mail.

2017, *Overweight Kids Pay a Heavy Social Price*, U.S. News & World Report.

2017, *Mood and food: Some things to think about when raiding the fridge*, USC News.

2015, *Thanksgiving offers researchers a feast of data on obesity*, USC News.

2015, *Scientists to use wireless sensors to spy on fat families as America's obesity crisis reaches epidemic proportions*, DailyMail.com.

2015, *I get rye with a little help from my friends*, Huffington Post.