

LillyBelle K. Deer
Ph.D.

CURRICULUM VITAE

Department of Psychology
University of Denver

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CAREER HISTORY

- Jul 2021 – Present NHLBI F32 Postdoctoral Scholar – University of Denver Department of Psychology, Denver, CO
Advisors: Dr. Elysia Davis, Dr. Jenalee Doom, and Dr. Benjamin Hankin
- Sep 2016 – Jun 2021 Graduate Researcher – Social Environment and Stress Lab, Davis, CA
Advisor: Dr. Camelia Hostinar
- Jan 2015 – Jun 2017 Research Assistant – The Berger Institute for Work, Family, & Children, Claremont, CA
Advisor: Dr. Tomoe Kanaya
- Jan 2014 – Jul 2015 Research Assistant and Student Therapist – The Claremont Autism Center, Claremont, CA
Advisors: Dr. Lindsey Sterling, Dr. Marjorie Charlop
- Sep 2013 – May 2015 Research Assistant – Psychology, Law, & Policy Lab, Claremont, CA
Advisor: Dr. Daniel Krauss

EDUCATION

- Sep 2016 – Jun 2021 University of California, Davis
Ph.D. Developmental Psychology (2021)
Advisor: Dr. Camelia Hostinar
Dissertation Committee: Dr. Camelia Hostinar, Dr. Paul Hastings, and Dr. Yuko Munakata
M.A., Developmental Psychology (2018)
Advisor: Dr. Camelia Hostinar
- Aug 2011 – May 2015 Claremont McKenna College
B.A. Psychology (Honors in Psychology)
Thesis advisor: Dr. Daniel Krauss

GRANT FUNDING

- Sep 2022 – Aug 2025 “*Placental CRH and child cardiovascular disease risk and obesogenic eating behaviors*”
NIH, NHLBI: F32HL165844-01
Total costs: \$204,558
Role: Principal Investigator

HONORS AND AWARDS

2022	International Society for Developmental Psychobiology Travel Award
2021	Psychology Graduate Program Outstanding Teaching Award (UC Davis)
2019	Summer Research Fellowship (UC Davis)
2019	Society for Research in Child Development Graduate Student Travel Award
2017	Spring Dukes Travel Award (UC Davis)
2016	First-Year Fellowship for Academic Excellence (UC Davis)

PUBLICATIONS

17. **Deer, L. K.**, Harrall, K. K., Doom, J. R., Glueck, D. H., Glynn, L. M., Sandman, C. A., & Davis, E. P. (2023). The association between effortful control in infancy and BMI trajectories over childhood. *Pediatric Obesity*, *e13059*. <https://doi.org/10.1111/ijpo.13059>
16. Doom, J. R., **Deer, L. K.**, Dieujuste, N., Han, D., Rivera, K., & Scott, S. R. (2023). Youth psychosocial resilience during the COVID-19 pandemic. *Current Opinion in Psychology*, *53*, 101656. <https://doi.org/10.1016/j.copsy.2023.101656>
15. **Deer, L. K.**, Su, C., Thwaites, N. A., Davis, E. P., & Doom, J. R. (2023). A framework for testing pathways from prenatal stress-responsive hormones to cardiovascular disease risk. *Frontiers in Endocrinology*, *14*, 1111474. <https://doi.org/10.3389/fendo.2023.1111474>
14. Choe, D. E., **Deer, L. K.**, & Hastings, P. D. (2023). Latent class analysis of maternal depression from pregnancy through early childhood: Differences in children's executive functions. *Developmental Psychology*. <https://doi.org/1037/dev0001540>
13. Parenteau, A. M., Boyer, C. J., Campos, L. J., Carranza, A. F., **Deer, L. K.**, Hartman, D. T., Bidwell, J. T., & Hostinar, C. E. (2022). A review of mental health disparities during COVID-1: Evidence, mechanisms, and policy recommendations for promoting societal resilience. *Development and Psychopathology*, 1-22. <https://doi.org/10.1017/S0954579422000499>
12. Parenteau, A. M., Alen, N. V., La, J., Luck, A. T., Teichrow, D. J., Nissen, A. T., **Deer, L. K.**, & Hostinar, C. E. (2022). Air pollution and serum Interleukin-6 in children. *New Directions for Child and Adolescent Development*, *2022(181-182)*, 125-154. <https://doi.org/10.1002/cad.20474>
11. Alen, N. V., **Deer, L. K.**, & Hostinar, C. E. (2022). Respiratory sinus arrhythmia as a resilience marker in children's health. *Psychosomatic Medicine*, *84(3)*, 374-382. <https://doi.org/10.1097/PSY.0000000000001057>
10. **Deer, L. K.**, Shields, G. S., Alen, N. V., & Hostinar, C. E. (2021). Curvilinear associations between family income in early childhood and the cortisol awakening response in adolescence. *Psychoneuroendocrinology*, *129*, 105237. <https://doi.org/10.1016/jpsyneuen.2021.105237>

9. Alen, N. V., **Deer, L. K.**, Karimi, M., Feyzieva, E., Hastings, P. D., & Hostinar, C. E. (2021). Children's altruism following acute stress: The role of autonomic nervous system activity and social support. *Developmental Science*. <https://doi.org/10.1111/desc.13099>
8. Shields, G. S., **Deer, L. K.**, Hastings, P. D., & Hostinar, C. E. (2021). Adiposity, inflammation, and working memory: Longitudinal evidence for a vicious cycle. *Brain, Behavior, and Immunity – Health*, *13*, 100202. <https://doi.org/10.1016/j.bbih.2021.100202>
7. Parenteau, A. M., Alen, N. V., **Deer, L. K.**, Nissen, A. T., Luck, A. T., & Hostinar, C. E. (2021). Parenting matters: Parents can reduce or amplify children's anxiety and cortisol responses to acute stress. *Development and Psychopathology*, *32*, 1799-1809. doi: <https://doi.org/10.1017/S0954579200001285>
6. **Deer, L. K.**, Hastings, P. D., & Hostinar, C. E. (2020). The role of childhood executive function in explaining income disparities in long-term academic achievement. *Child Development*, *91*(5), e1046-e1063. <https://doi.org/10.1111/cdev.13383>
5. Alen, N. V., **Deer, L. K.**, & Hostinar, C. E. (2020). Autonomic nervous system activity predicts increasing serum inflammatory cytokines in children. *Psychoneuroendocrinology*, *119*, 104745. <https://doi.org/10.1016/j.psyneuen.2020.104745>
4. **Deer, L. K.**, Bernard, K., & Hostinar, C. E. (2019). The influence of maternal stress and child maltreatment on the developing HPA axis. In L. L. M. Welling & T. K. Shackelford (Eds.), *Oxford Handbook on Evolutionary Psychology and Behavioral Endocrinology* (pp. 161-177). New York: Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780190649739.013.9>
3. **Deer, L. K.**, Shields, G. S., Ivory, S. L., Hostinar, C. E., & Telzer, E. H. (2018). Racial/ethnic disparities in cortisol diurnal patterns in affect in adolescence. *Development and Psychopathology*, *30*(5), 1977-1993. <https://doi.org/10.1017/S0954579418001098>
2. **Deer, L. K.**, Kanaya, T., & Gohn, K. (2018). Anxiety and self-efficacy as sequential mediators in U.S. college students' career preparation. *Education + Training*, *60*(2), 185-197. <https://doi.org/10.1108/ET-07-2017-0096>
1. Scurich, N., Krauss, D., Reiser, L., Garcia, N., & **Deer, L. K.** (2015). Venire jurors' perception of adversarial allegiance. *Psychology, Public Policy, and Law*, *21*, 161-168. <https://doi.org/10.1037/law0000042>

Under review

Deer*, **L. K.**, Harrall*, K. K., Glueck, D. H., Davis, E. P., & Doom, J. R. (under review). Modeling associations between repeated psychological measures and outcome trajectories to test sensitive periods: A tutorial.

Doom, J. R., **Deer, L. K.**, Mickel, T., Infante, A., & Rivera, K. M. (revision invited). Eating behaviors as pathways from early childhood adversity to adolescent cardiometabolic risk. *Health Psychology*.

Doom, J. R., **Deer, L. K.**, Dabelea, D., LeBourgeois, M. K., Lumeng, M., Martin, C., Hankin, B. L., & Davis, E. P. (under review; accepted for a special issue). Biological and behavioral pathways from prenatal depression to offspring cardiometabolic risk: Testing the developmental origins of health and disease hypothesis.

In prep (full draft of manuscript completed)

Deer, L. K., Parenteau, A. M., Alen, N. V., Umana Linares, J., Wyant-Stein, K., Lagattuta, K., & Hostinar, C. E. (in prep). Null effects of acute stress and parent support on executive function in children: An experimental study.

* denotes shared first-authorship.

CONFERENCE PRESENTATIONS

13. **Deer, L. K.**, Hennessey, E. P., Aran, Ö., Rivera, K., Hankin, B. L., Doom, J. R., Hoffman, M. C., & Davis, E. P. (2023). Higher prenatal anxiety predicts lower neonatal hair cortisol. Paper presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.
12. Doom, J. R., Davis, E. P., **Deer, L. K.**, Demers, C. H., & Hankin, B. L. (2023). An experimental test of fetal programming of birth outcomes and offspring cardiovascular health. Section of a symposium presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.
11. Aran, Ö., **Deer, L. K.**, Nevarez-Brewster, M., Hoffman, M. C., Hankin, B. L., & Davis, E. P. (2023). Placental CRH trajectories during gestation and birth outcomes. Section of a symposium presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.
10. Nevarez-Brewster, M., Demers, C. H., **Deer, L. K.**, Hoeflich Haase, M., Al-Ali, K., Bagonis, M. M., Gilmore, J. H., Hoffman, M. C., Styner, M. A., Hankin, B. L., & Davis, E. P. (2023). Prenatal maternal sleep quality predicts neonatal white matter microstructure and infant negative emotionality. Section of a symposium presented at the Sleep Research Society Annual Conference, Indianapolis, IN, USA, June 3-7.
9. **Deer, L. K.**, Doom, J. R., Harrall, K. K., Glueck, D. H., Sandman, C. A., & Davis, E. P. (2023). Infant self-regulation predicts BMI trajectories from infancy to adolescence. Section of a symposium presented at the Society for Research in Child Development Biennial Conference, Salt Lake City, Utah, USA, March 23-25. Chair: **Deer, L. K.**
8. Yi, S. C., Daang, E. M., **Deer, L. K.**, & Hostinar, C. E. (2022). A pilot study examining financial stress during COVID-19 and executive function and mental health in parents and children. Section of a symposium presented at the International Society of Psychoneuroendocrinology Annual Conference, Chicago, Illinois, USA, September 8-10.

7. **Deer, L. K.**, Hankin, B. L., Hennessey, E. P., Harrall, K. K., Glueck, D. H., Doom, J. R., Hoffman, M. C., & Davis, E. P. (2022). Prenatal and postnatal influences on developmental trajectories. Section of a symposium presented at the Association for Psychological Science Annual Conference, Chicago, Illinois, USA, May 27-29.
6. Alen, N.V., **Deer, L. K.**, Parenteau, A. M., & Hostinar, C. E. (2021). High respiratory sinus arrhythmia: A physiological marker of resilience against health problems associated with low socioeconomic status. Section of a symposium presented at the Society for Research in Child Development Virtual Biennial Conference, Online Format, April 7-9.
5. Hostinar, C. E., Alen, N. V., & **Deer, L. K.** (2019). Tend-and-befriend tendencies in children following acute stress: The role of respiratory sinus arrhythmia in altruism. Paper presented at the International Society for Developmental Psychobiology meeting, Chicago, Illinois, USA, October 16-18.
4. **Deer, L. K.**, Shields, G. S., Ivory, S. L., Hostinar, C. E., & Telzer, E. H. (2019). Does affect explain racial/ethnic differences in diurnal cortisol? A Daily Diary study. Section of a symposium presented at the Society for Research in Child Development Biennial Conference, Baltimore, Maryland, USA, March 20-23.
3. **Deer, L. K.**, Hastings, P. D., & Hostinar, C. E. (2018). Early-life socioeconomic status, self-regulation, and long-term academic outcomes. Section of a symposium presented at the Association for Psychological Science Annual Conference, San Francisco, California, USA, May 24-27.
2. **Deer, L. K.**, Gunnar, M., & Hostinar, C. E. (2017). The social buffering of the HPA axis in children and adolescents: The role of perceived support from close friends. Section of a symposium presented at the American Psychosomatic Society Annual Conference, Seville, Spain, March 15-18.
1. Reiser, L. Garcia, N., **Deer, L. K.**, Scurich, N., & Krauss, D. (2015). Adversarial allegiance, court-appointed experts, and jury decision-making in a SVP case. A paper presented at the American Psychology and Law Society Annual Conference, San Diego, California, USA, March 19-21.

CONFERENCE POSTERS

24. **Deer, L. K.**, Su, C., Doom, J. R., Hoffman, M. C., Hankin, B. L., & Davis, E. P. (2023). Adverse childhood experiences and pregnant individuals' health in the perinatal period. Poster presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.
23. **Deer, L. K.**, Hennessey, E. P., Aran, Ö., Rivera, K., Hankin, B. L., Doom, J. R., Hoffman, M. C., & Davis, E. P. (2023). Higher prenatal anxiety predicts lower neonatal hair cortisol. Poster presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.

22. Han, D., **Deer, L. K.**, Rivera, K. M., Narayan, A. J., & Doom, J. R. (2023). Positive childhood experiences and adult cardiovascular health. Poster presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.
21. Aran, Ö., **Deer, L. K.**, Rivera, K., Nevarez-Brewster, M., Doom, J. R., Hoffman, M. C., Hankin, B. L., & Davis, E. P. (2023). Experiences of daily discrimination and neonatal hair cortisol levels. Poster presented at the International Society for Psychoneuroendocrinology Annual Conference, London, UK, August 30-September 1.
20. Benefield, T. L., **Deer, L. K.**, Nevarez-Brewster, M., LeBourgeois, M. K., Doom, J. R., Hankin, B. L., & Davis, E. P. (2023). Newborn hair cortisol and sleep health in infancy. Poster presented at the Sleep Research Society Annual Conference, Indianapolis, IN, USA, June 3-7.
19. Brennan, V. **Deer, L. K.**, Hennessey, E. P., Hankin, B. L., Davis, E. P. (2023). Intergenerational transmission of trauma: Parental adversity and unpredictability and offspring negative affect at six months. Poster presented at the Society for Research in Child Development Biennial Conference, Salt Lake City, Utah, USA, March 23-25.
18. **Deer, L. K.**, Demers, C. H., Hennessey, E. P., Gottlieb, K., Su, C., Hoffman, M. C., Hankin, B. L., & Davis, E. P. (2022). Earlier gestational age at birth is associated with lower neonatal hair cortisol. Poster presented at the International Society for Developmental Psychobiology Annual Conference, San Diego, California, USA, November 9-11.
17. Infante, A., **Deer, L. K.**, Mickel, T., Doom, J. R. (2022). Conduct problems as a mediator between early childhood maternal depression, financial difficulties, and negative life events and adolescent metabolic risk. Poster presented at the International Society for Developmental Psychobiology Annual Conference, San Diego, California, USA, November 9-11.
16. Ferrer, A., Nevarez-Brewster, M., **Deer, L. K.**, Hankin, B. L., & Davis, E. P. (2022). Newborn hair cortisol and sleep health at 7 months. Poster presented at the International Society for Developmental Psychobiology Annual Conference, San Diego, California, USA, November 9-11.
15. Yi, S. C., Parenteau, A. M., Xu, Q., **Deer, L. K.**, Alen, N. V., Nissen, A. T., & Hostinar, C. E. (2022). Mixed identity: Examining chronic cortisol output, perceived stress, and mental health in Biracial, Multiracial, and Monoracial children. Poster presented at the Western Psychological Association Annual Conference, Portland, Oregon, USA, April 28-30.
14. Parenteau, A. M., Yi, S. C., Fu, B. T., Alen, N. V., **Deer, L. K.**, & Hostinar, C. E. (2022). Elevated hair cortisol concentrations in youth during the pandemic. Poster presented at the American Psychosomatic Society Annual Conference, Long Beach, California, USA, March 23-26.

13. Patwardhan, B. P., Parenteau, A. M., **Deer, L. K.**, Alen, N. V., Nissen, A. T., & Hostinar, C. E. (2021). Relation between parent perception of child emotion regulation and parent behavior. Poster presented at the Western Psychological Association Annual Conference, Online Format, April 28-30.
12. Parenteau, A. M., Alen, N. V., **Deer, L. K.**, Nissen, A. T., La, J., Luck, A., & Hostinar, C. E. (2021). Air pollution and serum Interleukin-6 in children. Poster presented at the Society for Research in Child Development Virtual Biennial Conference, Online Format, April 7-9.
11. Mashash, M., Hostinar, C. E., **Deer, L. K.**, & Hastings, P. D. (2021). Concurrent and transactional associations between obesity, inflammation, and depressive symptoms across adolescence: Moderation by sex. Poster presented at the Society for Research in Child Development Virtual Biennial Conference, Online Format, April 7-9.
10. Shields, G. S., **Deer, L. K.**, Hastings, P. D., & Hostinar, C. E. (2020, conference cancelled due to COVID-19). Curvilinear associations between childhood income and the cortisol awakening response in adolescence. Society for Research on Adolescence Biennial Meeting, San Diego, California, USA, March 19-21.
9. Alen, N. N., **Deer, L. K.**, Karimi, M., & Hostinar, C. E. (2020, conference cancelled due to COVID-19). Cardiac Autonomic Balance and inflammatory response to stress in children. Poster at the Annual Meeting of the American Psychosomatic Society, Long Beach, California, USA, March 11-14.
8. Parenteau, A. M., La, J., Luck, A., **Deer, L. K.**, Alen, N. V., & Hostinar, C. E. (2020, conference cancelled due to COVID-19). Air pollution and serum Interleukin-6 in children. Poster at the Annual Meeting of the American Psychosomatic Society, Long Beach, California, USA, March 11-14.
7. Shields, G. S., **Deer, L. K.**, Hastings, P. D., & Hostinar, C. E. (2020, conference cancelled due to COVID-19). Curvilinear associations between childhood income and the cortisol awakening response in adolescence. Poster at the Annual Meeting of the American Psychosomatic Society, Long Beach, California, USA, March 11-14.
6. Mashash, M., Hostinar, C. E., **Deer, L. K.**, Hastings, P. D. (2019). Differential effects of type and timing of childhood adversity on inflammatory processes in adolescence. Poster presented at the Society for Research in Child Development Biennial Conference, Baltimore, Maryland, USA, March 20-23.
5. **Deer, L. K.**, Shields, G. S., Ivory, S. L., Hostinar, C. E., & Telzer, E. H. (2018). Racial/ethnic disparities in cortisol diurnal patterns in affect in adolescence. A poster presented at the Association for Psychological Science Annual Conference, San Francisco, California, USA, May 24-27.
4. **Deer, L. K.**, Gohn, K., & Kanaya, T. (2017). The relationship between loan debt and institution type on college students' career preparation behaviors. A poster presented at the Western Psychological Association Annual Conference, Sacramento, California, USA, April 26-29.

3. Gohn, K., **Deer, L. K.**, Somlo, D., & Kanaya, T. (2017). Anxiety and self-efficacy as a sequential mediational process in college students' career preparation. A poster presented at the Western Psychological Association Annual Conference, Sacramento, California, USA, April 26-29.
2. **Deer, L. K.**, Johnson, A., West, T., & Livingston, L. (2016). College students' anxiety regarding work-life balance. A poster presented at the Western Psychological Association Annual Conference, Long Beach, California, USA, April 28-May 1.
1. West, T., Johnson, A., & **Deer, L. K.** (2016). Work-life priorities of college students within specific fields of study. A poster presented at the Western Psychological Association Annual Conference, Long Beach, California, USA, April 28-May 1.

POLICY BRIEFS

1. **Deer, L. K.**, Hastings, P. D., & Hostinar, C. E. (2020). *Boosting executive function may help close income-based achievement gap* (Center for Poverty & Inequality Research Policy Brief, Volume 9, Number 5). Retrieved from https://poverty.ucdavis.edu/sites/main/files/file-attachments/deer_exec_func_brief.pdf

JOURNAL PEER REVIEWS

BMC Neuroscience, BMC Pregnancy & Childbirth, Brain, Behavior, & Immunity – Health, Child Development, Children and Youth Services Review, Comprehensive Psychoneuroendocrinology, Developmental Psychobiology, Development and Psychopathology, Journal of Youth Studies, Journal of Behavioral Medicine, Journal of American College Health, Neuropsychology, Paediatric & Perinatal Epidemiology, Psychoneuroendocrinology

TEACHING APPOINTMENTS

Health Psychology (solo taught Summer 2020, co-taught Fall 2019).

TEACHING ASSISTANT APPOINTMENTS

Health Psychology (Summer 2017, Fall 2018, Fall 2019)
 Developmental Psychology (Summer 2018)
 Cognitive Development (Fall 2017, Spring 2018)
 Social/Emotional/Personality Development (Winter 2018, Spring 2019, Spring 2020)
 Developmental Disorders (Winter 2020)
 Infant Development (Fall 2020)

UNDERGRADUATE THESIS MENTORING

Jency Umana Linares, "The role of acute stress and parental support in children's executive function performance" (June 4, 2020), University of California, Davis
 Trudy Mickel, "Does youth sports participation promote long-term physical health for individuals with childhood adversity?" (May 19, 2023), University of Denver

INVITED ACADEMIC TALKS

Dec 2020 “Developmentally aligned strategies to enhance executive function skills for children 4-8 years of age” (Twin Cities Public Television, Minnesota)

SERVICE

University of Denver Transition to R01 Working Group (April-June 2022)

Next-Gen Psych Scholars Program (Academic Year 2020-2021 and 2021-2022)

UC Davis Psychology Department Graduate Student Peer Mentor (Academic Year 2020-2021)

UC Davis Student Health Insurance Plan Committee (Academic Years 2019-2020 and 2020-2021)

UC Davis Psychology Graduate Student Association President (Academic Year 2019-2020)

UC Davis Graduate Student Association Representative (Academic Year 2018-2019)

UC Davis Undergraduate Research Center Research Training and Mentorship Mentor (Academic Years 2017-2018, 2018-2019, 2019-2020, and 2020-2021)

UC Davis First-Gen Grads Peer Mentorship Program Mentor (Academic Year 2019-2020)

UC Davis High School Summer Research Program Mentor (Summers 2018, 2019, and 2020)

CONFERENCE ORGANIZATION

UC Davis Psychology Department Research Conference (Online due to COVID-19) – May 1st, 2020

UC Adolescence Consortium Conference (Los Angeles, CA) – August 14th-16th 2019