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SUMMARY STATEMENT
(Privileged Communication)

Release Date: 03/19/2021
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Application Number: 1 F31 NR020138-01

ADYNSKI,HARRY
University of North Carolina at Chapel Hill
106 Kiley Street
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Review Group: NRRC (80)
National Institute of Nursing Research Initial Review Group

Meeting Date: 02/18/2021
Council: MAY 2021
Requested Start: 07/01/2021

PCC: DTRCC

Dual IC(s): HD, MH

Project Title: The Role of Social Adversity on Trajectories of Child Emotional Health Regulation

Requested: 1 Year 6 Months

Sponsor: Santos, Hudson
Department: School of Nursing
Organization: UNIV OF NORTH CAROLINA CHAPEL HILL
City, State: CHAPEL HILL NORTH CAROLINA

SRG Action: Impact Score:15
Next Steps: Visit https://grants.nih.gov/grants/next_steps.htm
Human Subjects: X4-Human subjects involved - Exemption #4 designated
Animal Subjects: 10-No live vertebrate animals involved for competing appl.

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1F31NR020138-01 Adynski, Harry

RESUME AND SUMMARY OF DISCUSSION: This report summarizes the initial scientific merit review of a new application for a Ruth L. Kirschstein National Research Service Award (NRSA) for an Individual Predoctoral Fellowship in Nursing Research submitted by Mr. Harry Adynski, a PhD student at the University of North Carolina (UNC). Mr. Adynski requests eighteen months of support for research and training towards his goal of a career as an independent researcher developing dyadic parenting interventions to improve child health and wellbeing in disadvantaged populations. Applying the Developmental Origins of Health and Disease framework, he will conduct secondary analyses of longitudinal data from the Durham Child Health and Development Study to investigate the impact of early life social adversity on emotional regulation trajectory (from birth to 3 years of age) and subsequent academic performance at school entry (age 5-6 years); maternal characteristics mediating these associations will also be explored. This exceptionally well-written application is from a strong applicant with an excellent dissemination record and recognition as a Hillman Scholar. He is very engaged in research with mentors, including his well-funded primary sponsor, and the accomplished mentoring team has a solid history of guiding predoctoral fellows and T32 scholars. The focused training plan covers statistics, team science, and interventions; opportunities to participate in primary research data collection are included to supplement the secondary analyses proposed for this dissertation study. The research leverages existing data from mother-child dyads over time, addresses an important gap in the literature, and is rigorously designed. UNC offers a world-class environment with long-standing training programs and excellent training opportunities; institutional support for Mr. Adynski's development is evident in the supportive letter from the Dean. Minor weaknesses relating to level of independence conducting statistical analyses and questions about the proposed mediating variables do not detract from the applicant's strong training potential. Overall, reviewers are impressed with the well-prepared applicant, excellent mentors, and important area of study. The proposed Research Training Plan is of high impact for advancing Mr. Adynski's career as a nurse scientist and this application is ranked as exceptional for its scientific and technical merit.

DESCRIPTION (provided by applicant): Emotional health regulation, the ability to manage attention, affect and behavior, is directly related to long term maintenance of health behaviors making it a cornerstone for wellness and wellbeing across the lifespan. However, children who experience social adversity, such as low socioeconomic status, are at heightened risk for experiencing emotional health problems. By preschool age, estimates indicate that one in five children experience emotional health dysregulation, which lead to risky behaviors, impaired relationships, psychopathology, and physical illness across the lifespan. Thus, school entry is a critical point for identification of emotional health problems as caregivers, teachers, and school nurses can be strategically positioned to conduct screening and interventions. To inform effective screening and intervention, we need to better understand the role of social adversity on emotional health regulation trajectories and its relationship with functional outcomes at school entry, such as academic performance. Additionally, because child emotional regulation is directly affected by caregiving, we also need to explore modifiable maternal characteristics including maternal executive functioning and parenting sensitivity which could be targeted for future intervention to promote child wellness. In this NRSA F31 proposal, using rich longitudinal data from the Durham Child Health and Development Study, I will adopt the Developmental Origins of Health and Disease framework to address the following specific aims: 1) Determine early life social adversity's effect on emotional health regulation trajectories from ages 0 to 3 years; 2) Determine whether emotional health regulation trajectories associate with academic performance outcomes at school entry (kindergarten, 1st grade); and 3) Identify whether modifiable maternal characteristics (i.e. executive function and parenting sensitivity) mediate the association of (a) social adversity to emotional health regulation trajectories, and (b) emotional health regulation trajectories to academic performance. The accompanying career development plan will provide the foundation for me to a) expand expertise

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in the effects of early life adversity on child development and emotional health regulation; b) develop methodological and analytic skills in longitudinal approaches; c) acquire knowledge in evidence-based nursing intervention development and clinical translation; d) expand career development and team science skills. I have a strong and highly successful mentorship team that is dedicated to my growth and development and will guide me throughout this award. Together, the career development and research plan will support my development as an independent nursing scientist in the area of social adversity, child health and well-being. This proposal aligns with the wellness focus of the NINR Strategic Plan. This study will generate important knowledge related to the conditions in which childhood emotional health dysregulation arise and identify potential modifiable factors that myself and others can use to inform nursing child-parent interventions.

PUBLIC HEALTH RELEVANCE: Emotional health regulation, the ability to manage attention, affect and behavior, is a cornerstone for wellness and wellbeing across the lifespan. This project will explore the role of early life social adversity on trajectories of child emotional health regulation across early childhood, related functional outcome at school entry (academic performance), and potential mediating factors (maternal executive functioning and parenting sensitivity) that can be used for nursing intervention development to promote child emotional health and well-being. This award will support my development toward becoming an independent nurse scientist dedicated to minimizing the effects of social adversity on child health and well-being.

CRITIQUE 1

Fellowship Applicant: 1

Sponsors, Collaborators, and Consultants: 1

Research Training Plan: 1

Training Potential: 1

Institutional Environment & Commitment to Training: 1

Overall Impact/Merit: This fellowship application proposes to use a Developmental Origins of Health and Disease framework to determine: (1) effects of early life social adversity on emotional health regulation trajectories from birth to 3 years; (2) whether these trajectories associate with academic performance outcomes at school entry (kindergarten, 1st grade); (3) whether maternal characteristics mediate the association of (a) social adversity to emotional health regulation trajectories, and (b) emotional health regulation trajectories to academic performance with the ultimate goal of developing parenting interventions. The proposed training plan will enhance the applicant's potential for, and commitment to, a productive scientific research career as a nurse scientist. The applicant has demonstrated a strong commitment to research through scientific publications, Hillman Scholarship, and active participation in current research studies. The primary sponsor has multiple NIH-funded studies, as well as previous experience as a NRSA co-sponsor and T32 mentor. The team rounds out expertise in psychology, medicine, and biostatistics and members have mentored other NRSA fellows. The training plan includes coursework and practical experience in methods, analytic skills, team science, intervention development, recruitment, and primary data collection and processing. The institutional environment is strong, with a nearly 30- year history of pre- and post-doctoral training. The applicant's research on early life social adversity and its effect on emotional health regulation has the potential to impact future interventions specific to parenting behaviors that improve executive functioning and sensitivity.

1. Fellowship Applicant Strengths

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- Has published first- and co-author manuscripts.
- Hillman scholarship provided outstanding experience in research.
- Has demonstrated clear pathway to research.

Weaknesses

- No significant weaknesses noted.

2. Sponsors, Collaborators, and Consultants**Strengths**

- Sponsor Dr. Hudson Santos has multiple NIH-funded studies, demonstrated expertise in early life adversity, and has co-sponsored other NRSA fellows, as well as mentored T32 scholars.
- Collaborators provide additional expertise in psychology, medicine, and biostatistics.
- Collaborators have mentored other NRSA fellows.
- Gilmore provides access to Early Brain Development Study.

Weaknesses

- No significant weaknesses noted.

3. Research Training Plan**Strengths**

- Weekly mentoring.
- Relevant coursework in methods, analytics, team science, and intervention development.
- Participation in recruitment, data collection, and data processing.
- Clear timeframe with realistic milestones.

Weaknesses

- No significant weaknesses noted.

4. Training Potential**Strengths**

- Work during BSN program and to date demonstrates commitment to research.
- Letters of recommendation identify strong potential.

Weaknesses

- No significant weaknesses noted.

5. Institutional Environment & Commitment to Training**Strengths**

- Strong environment in the School of Nursing.
- Strong collaborative institutes conducting related research that can provide support.
- Long-standing T32 in the School of Nursing that provides robust training structures and opportunities.

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Weaknesses

- No significant weaknesses noted.

Protections for Human Subjects: Acceptable Risks and Adequate Protections

- Meets criteria for Exemption #4

Vertebrate Animals: Not Applicable (No Vertebrate Animals)**Biohazards:** Not Applicable (No Biohazards)**Training in the Responsible Conduct of Research:** Acceptable

Comments on Format (Required):

- CITI appropriate.

Comments on Subject Matter (Required):

- Includes training for participation in clinical trial research as well as NRSA project.

Comments on Faculty Participation (Required):

- Appropriate.

Comments on Duration (Required):

- Appropriate.

Comments on Frequency (Required):

- Appropriate.

Resource Sharing Plans: Not Applicable (No Relevant Resources)**Budget and Period of Support:** Recommend as Requested**CRITIQUE 2**

Fellowship Applicant: 1

Sponsors, Collaborators, and Consultants: 2

Research Training Plan: 1

Training Potential: 2

Institutional Environment & Commitment to Training: 1

Overall Impact/Merit: This is an F31 application submitted by a doctoral student at the University of North Carolina at Chapel Hill entitled The Role of Social Adversity on Trajectories of Child Emotional Health Regulation. For this work, the applicant adopts the Development Origins of Health and Disease framework to determine 1) the effect of early life adversity on emotional health regulation during the 0-3-year period in the life course, 2) whether emotional health regulation trajectories associate with academic performance in kindergarten, and 3) maternal characteristics such as executive function and parenting sensitivity mediate the association to adversity. The applicant proposes to use the Durham

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Study, a longitudinal cohort study that explored early mother-child dyads through multiple in-home and school visits from infancy through early childhood (3 months to 2nd grade) for families residing in Durham, NC (a majority non-white population) with higher prevalence for poverty than state and national levels, suggestive of high potential adversity. The applicant has outlined the validated measures that were used in each phase of the study and the measures to be pulled out to measure adversity, childhood development, and material characteristics such as executive function. The application is grounded in a conceptual framework based on the Developmental Origins of Health and Disease and aligns with NINR strategic plan to generate knowledge regarding conditions that impact emotional health dysregulation to identify modifiable factors through intervention. The applicant's individual learning objectives include: a) expansion of expertise on the impact of early adversity on child development and emotional regulation, develop analytic skills to conduct longitudinal data analysis, learn intervention development and effective function as a part of a team science experience in the context of professional development. He has strong support for data analysis but needs to ensure that he has primary responsibility for analyses in order to fully develop the needed skillset to move towards independence. The letter from the Dean is strong and outlines in detail how each faculty member will be supporting the applicant. Enthusiasm for this work is based on the use of high-quality secondary data in a strong mentored environment to explore the role of adversity on subsequent health outcomes. While this data was collected in the past, it is timely nonetheless in terms of creating analytic models that could subsequently be used with more current data to examine exacerbations in adversity that have occurred during the current pandemic impacting child health outcomes. Overall, the application is well organized with clear outlines for activity, mentorship, and expected outcomes.

1. Fellowship Applicant

Strengths

- Selected for Carolina Excellence Fellowship from a large pool of students as a predoctoral student and the Hillman Scholars Nursing Innovation bridge program for BSN-PhD.
- The applicant has a track record of research through prior experiences that are related to the current area of study involving early childhood development and psychological distress in young mothers.
- He has done well with graduate level course work to date.
- The applicant has been able to create a solid professional development network to conduct the research as outlined.

Weaknesses

- No major weakness noted.

2. Sponsors, Collaborators, and Consultants

Strengths

- Applicant has created an interdisciplinary research team led by Dr. Santos, who serves as the primary sponsor. He is an assistant professor at UNC School of Nursing (SON) and Director of the UNC Biobehavioral lab. Dr. Santos has a history of mentorship and NIH-funded research. His expertise derives from work focused on longitudinal studies of hardship, child development, and genomics.
- A detailed table is provided with the position, area of expertise, contribution to the training plan, and role in the proposed study.
- Other members of the team include:

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- Dr. Cathi Propper, co-sponsor, is an Adjunct Associate Professor at UNC Department of Psychology and Neuroscience and a Senior Research Scientist at the Frank Porter Graham Child Development Institute. She has is the PI of the Human Development and Interdisciplinary Research Training (5T32HD0073676-30) and is the owner of the Durham Child Health and Development Study (Durham Study) which is important for data access for this study.
- Dr. Linda Beeber, a Professor & Associate Dean within the SON focusing on mental health management.
- Dr. John Gilmore, mentor, is the Thad an Alice Eure Distinguished Professor, Vice Chair, Research & Scientific Affairs, and the Director of Center for Excellence in Community Mental Health. He has ongoing NIH funded studies within Early Brain Development Lab.
- Dr. Baiming Zou is an assistant Professor within the UNC Department of Biostatistics.

Weaknesses

- The Dean says that Dr. Zou will assist with conducting and interpreting the analyses for this project leaving me to wonder exactly what the applicant will do independently.

3. Research Training Plan

Strengths

- Solid research training plan that includes a mix of didactic coursework, individual mentorship, and research experiences focused primarily on the use of secondary data obtained from through the research mentor.
- Activities seem well-matched to learning goals.

Weaknesses

- It is critical that the applicant is able to perform their own analyses for this activity and that Dr. Zou is the supportive person for the analysis as outlined in the table so that the applicant is self-sufficient.

4. Training Potential

Strengths

- The student has significant training potential and the work has increasing meaningfulness in addressing health disparities, particularly for vulnerable youth.
- The application suggests that he has a commitment to the work and can complete the project as outlined.

Weaknesses

- None noted.

5. Institutional Environment & Commitment to Training

Strengths

- UNC-CH is well equipped to provide the student with the requisite training and support to execute the work.

Weaknesses

- None noted.

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Protections for Human Subjects: Acceptable Risks and Adequate Protections

- Exemption #4

Vertebrate Animals: Not Applicable (No Vertebrate Animals)

Biohazards: Not Applicable (No Biohazards)

Training in the Responsible Conduct of Research: Acceptable

Comments on Format (Required):

- There is a beautiful table outlining the training activities for responsible conduct of research. The formats range from online learning modules to seminars, peer-review activities, coursework, and individual meetings with sponsors and advisors.

Comments on Subject Matter (Required):

- Subjects include formal CITI Training areas, human subject research, conflict of interest, scientific and research misconduct, human subjects research, animal and laboratory-based research, peer review/authorship, data collection, storage, and management, NIH policies regarding publication, collaborations with industry and academia, and the mentor/mentee relationship, HIPAA, etc.

Comments on Faculty Participation (Required):

- Faculty participate in both institutional and individual activities.

Comments on Duration (Required):

- Duration varies, but there is ongoing activity over the course of the proposed award period.

Comments on Frequency (Required):

- Frequency varies, but there is ongoing activity over the course of the proposed award.

Resource Sharing Plans: Not Applicable (No Relevant Resources)

Budget and Period of Support: Recommend as Requested

CRITIQUE 3

Fellowship Applicant: 2

Sponsors, Collaborators, and Consultants: 1

Research Training Plan: 2

Training Potential: 2

Institutional Environment & Commitment to Training: 1

Overall Impact/Merit: The applicant proposes to “explore the role of early life social adversity on trajectories of child emotional health regulation across early childhood, related functional outcome at school entry (academic performance), and potential mediating factors (maternal executive functioning and parenting sensitivity) that can be used for nursing intervention development to promote child

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emotional health and well-being.” The applicant has a very solid background that included participation in the Hillman Scholars Program and an experience as a research assistant. The applicant assembled a strong team of mentors with diverse expertise who have a great track record of publications and funding, thus setting himself up for success as he implements the proposed study. The significance and rigor of the proposed research was high. The training plan is appropriate and would be instrumental for the applicant attaining and honing the experiences he needs to successfully implement the proposed study. The institutional environment is remarkable. There were concerns that the proposed mediators (executive function and parenting sensitivity) of the relationship between social adversity and academic performance appears to be “blaming the victim model”, i.e., the parents could be victims of the unjust economic system in the US that created the hardship for these parents, particularly, given that 52% of the parents are African Americans. There is a missed opportunity to compare African Americans and European Americans on the effects of social adversity on academic performance and how these mediating factors would explain that relationship.

1. Fellowship Applicant

Strengths

- Applicant’s acceptance and participation in the Hillman Scholars Program in Nursing Innovation, which an integrated BSN to PhD program provided him with early exposure to mentored research experiences that he can leverage to successfully implement the proposed study.
- The applicant has three publications, which is a strength and a good indication of future productivity as an independent researcher.
- The applicant had an experience as a research assistant, although it was for a short period of time. The skill sets gained through this experience will serve the applicant now and in the future.

Weaknesses

- The applicant’s low grades in several BSN courses including in anatomy and physiology was a concern. However, the grades related to the PhD courses were much improved.

2. Sponsors, Collaborators, and Consultants

Strengths

- The applicant assembled a solid and accomplished team of sponsors with diverse expertise. This team would be vital in the applicant’s success in gaining and honing the skills pertinent to successful implement the proposed study.
- The co-sponsor’s expertise in socioenvironmental factors, early life stressors, and genomics related to child neurodevelopment in at-risk populations is priceless and well aligned with the expertise needed to guide the applicant as he conducts the proposed study.

Weaknesses

- It’s unclear who the sponsor and co-sponsor is on this application. In the key personnel section, Dr. Cathi Propper is listed as co-sponsor and Dr. Hudson Santos indicated as the sponsor. However, throughout the application, Dr. Santos is indicated as the co-sponsor.

3. Research Training Plan

Strengths

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- The applicant clearly identified the gap in the literature on the topic and how his study will address the gap.
- The applicant provided evidence of the rigor of prior studies upon which the proposed study is based. The evidence provided support the design and approach for the proposed study.
- Use of existing longitudinal data (N=175) from the Durham Child Development Study (Durham Study) is a plus for this application.

Weaknesses

- Not clear what is meant by effects of social adversity on emotional regulations? The applicant has not established a relationship between the two variables.
- How do you modify parental executive function and parenting sensitivity to effect academic performance given that social adversity is the stressor for the parents? Socioeconomic hardship would be mitigated by basic needs such as food and economic resources and opportunities for the parents.

4. Training Potential

Strengths

- The applicant has some background as a research assistant that will serve him well now and in the future. He can leverage the skills and experiences gained as a research assistant as he implements the study proposed in this application under the supervision of a strong mentoring team.
- The courses and training opportunities presented by the application are strong. They will support the applicant as he attains and hones his research skills and knowledge.

Weaknesses

- None noted.

5. Institutional Environment & Commitment to Training

Strengths

- The institutional environment is comprehensive and will support the application. The applicant will have sufficient resources to help him gain and hone the skills pertinent for success in his study including the Frank Porter Graham Child Development Center.

Weaknesses

- None noted.

Protections for Human Subjects: Acceptable Risks and Adequate Protections

Vertebrate Animals: Not Applicable (No Vertebrate Animals)

Biohazards: Not Applicable (No Biohazards)

Training in the Responsible Conduct of Research: Acceptable

Comments on Format (Required):

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- A combination of in-person, online, and virtual training sessions and coursework are appropriate.

Comments on Subject Matter (Required):

- Appropriate and geared toward the applicant gaining pertinent research skills/experiences including training in responsible and ethical conduct of research.

Comments on Faculty Participation (Required):

- Moderate participation but appropriate.

Comments on Duration (Required):

- Appropriate. Over 23 hours that included a combination of contact hours in training and several courses.

Comments on Frequency (Required):

- Adequate for the type of training and courses proposed.

Resource Sharing Plans: Not Applicable (No Relevant Resources)

Budget and Period of Support: Recommend as Requested

THE FOLLOWING SECTIONS WERE PREPARED BY THE SCIENTIFIC REVIEW OFFICER TO SUMMARIZE THE OUTCOME OF DISCUSSIONS OF THE REVIEW COMMITTEE, OR REVIEWERS' WRITTEN CRITIQUES, ON THE FOLLOWING ISSUES:

PROTECTION OF HUMAN SUBJECTS: ACCEPTABLE

Exemption #4 criteria met.

TRAINING IN THE RESPONSIBLE CONDUCT OF RESEARCH: ACCEPTABLE

COMMITTEE BUDGET RECOMMENDATIONS: The budget was recommended as requested.

Footnotes for 1 F31 NR020138-01; PI Name: Adynski, Harry

NIH has modified its policy regarding the receipt of resubmissions (amended applications). See Guide Notice NOT-OD-18-197 at <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-18-197.html>. The impact/priority score is calculated after discussion of an application by averaging the overall scores (1-9) given by all voting reviewers on the committee and multiplying by 10. The criterion scores are submitted prior to the meeting by the individual reviewers assigned to an application, and are not discussed specifically at the review meeting or calculated into the overall impact score. Some applications also receive a percentile ranking. For details on the review process, see http://grants.nih.gov/grants/peer_review_process.htm#scoring.

MEETING ROSTER

National Institute of Nursing Research Initial Review Group
NATIONAL INSTITUTE OF NURSING RESEARCH
NRRC (80)
02/18/2021 - 02/19/2021

Notice of NIH Policy to All Applicants: Meeting rosters are provided for information purposes only. Applicant investigators and institutional officials must not communicate directly with study section members about an application before or after the review. Failure to observe this policy will create a serious breach of integrity in the peer review process, and may lead to actions outlined in NOT-OD-14-073 at <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-14-073.html> and NOT-OD-15-106 at <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-106.html>, including removal of the application from immediate review.

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* Temporary Member. For grant applications, temporary members may participate in the entire meeting or may review only selected applications as needed.

Consultants are required to absent themselves from the room during the review of any application if their presence would constitute or appear to constitute a conflict of interest.