9:00–9:10 a.m. Welcome: Dr. Laurie Bellows, Interim Vice Chancellor, Student Affairs & Director, UNL McNair Scholars Program

9:10–10:40 a.m. McNair Research Presentation Session 1

**Moderator – Sophie Tonjes**, Educational Psychology master’s student

- **Aiah Nour**, Biochemistry
  *Determining the Role of O-fucose Modifications in Stabilin-2 Receptor Expression and Function in Human Cells*
  Mentor: Dr. Edward Harris, Department of Biochemistry

- **Adan Redwine**, Biological Systems Engineering
  *Development of a Physiologically Relevant Model of Sensory Nerve Growth to Screen Pain Therapeutics*
  Mentor: Dr. Rebecca Wachs, Department of Biological Systems Engineering

- **Mahaa Albusharif**, Biochemistry
  *The Role of Conformational Strains in Enzyme Catalysis*
  Mentor: Dr. Mark Wilson, Department of Biochemistry

- **Zoe Erickson**, Biochemistry
  *An Increase in the Expression of Glycolysis Related Genes Correlates to Developing Preeclampsia*
  Mentor: Dr. Srivatsan Kidambi, Department of Chemical & Biomolecular Engineering

10:40–11:00 a.m. Break
Summer Research Virtual Colloquium

https://go.unl.edu/zoommsre2020

11:00 a.m.–12:00 p.m.  McNair Research Presentation Session 2

Clarice Santos, Sociology & Economics
Unsterile Needle Acquisition Among PWIDs in Rural Puerto Rico: A Comparison Between Those in and out of Treatment
Mentor: Dr. Patrick Habecker, Department of Sociology

Amyia Harris, Psychology
Parental Control During Homework Help Tasks of Children: Moderation by Learning Difficulties
Mentor: Dr. Jenna Finch, Department of Psychology

Vivian Nguyen, Psychology
Associations Between Job Loss and Parental Mental Health and Parenting Behavior During the COVID-19 Pandemic
Mentor: Dr. Jenna Finch, Department of Psychology

12:00–1:00 p.m.  Break

1:00–2:30 p.m.  McNair Research Presentation Session 3

Miguel Avila Garcia, Fisheries & Wildlife
Investigating a Range Expansion Associated with Anthropogenic Alterations in Cope’s Gray Tree Frog (Hyla chrysoscelis) Utilizing Prey Selection Parameters
Mentor: Prof. Dennis Ferraro, School of Natural Resources

Mohammad Majid, Computer Science
Investigation of Protection Failure Methods in WDM and Elastic Optical Networks
Mentor: Dr. Byrav Ramamurthy, Department of Computer Science & Engineering

Stephanie Perez, Civil Engineering
Investigating an Efficient Method for Extracting Microplastics from Soil/Sediment Samples
Mentor: Dr. Shannon Bartelt-Hunt, Professor & Chair, Civil & Environmental Engineering

Serigne Toure, Computer Engineering
The Effects of Applying Multiple Constraints in Reinforcement Learning
Mentor: Dr. Stephen Scott, Department of Computer Science & Engineering