

MEMORANDUM

TO: Rachel (Ray) Levy, Executive Director, Data Science Academy, and Professor,
Mathematics, College of Sciences, Co-Chair
Alyson Wilson, Associate Vice Chancellor, National Security and Special Research
Initiatives, and Professor, Statistics, College of Sciences, Co-Chair

AI and Research Innovation and Application Subgroup

Milad Abolhassani, Director of Accelerated Technologies, Integrative Sciences Initiative,
and Associate Professor and Alcoa Scholar in Chemical and Biomedical
Engineering, College of Engineering

Eli Cohen, Clinical Professor, Molecular Biomedical Sciences, College of Veterinary Medicine

Bill Rand, Executive Director, Business Analytics Initiative, and McLaughlan

Distinguished Professor, Business Management, Poole College of Management

Jill Sexton, Associate Director, Digital Organization and Strategy, NC State University
Libraries

Cranos Williams, Data-Driven Plant Science Platform Director, N.C. Plant Sciences
Initiative, and Goodnight Distinguished Professor in Agricultural Analytics, Electrical
and Computer Engineering, College of Engineering, and Plant and Microbial
Biology, College of Agriculture and Life Sciences

Yaroslava Yingling, Kobe Steel Distinguished Professor, Materials Science and
Engineering, College of Engineering

AI and Administration/Education Subgroup

Helen Armstrong, Professor, Graphic Design and Industrial Design, College of Design

Tiffany Barnes, Coordinator, Digital Transformation of Education Cluster, and
Distinguished Professor, Computer Science, College of Engineering

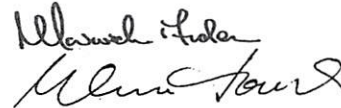
Helen Chen, Senior Vice Provost, Instructional Programs

Huilong Ding, Director of Labor Analytics and Workforce Development, Data Science
Academy, and Professor, English, College of Humanities and Social Sciences

Krista Glazewski, Executive Director, Friday Institute for Educational Innovation, and
Associate Dean for Translational Research, and Professor, Teacher Education and
Learning Sciences, College of Education

James Lester, Director, Center for Educational Informatics and NSF EngageAI Institute,
and Goodnight Distinguished University Professor in Artificial Intelligence and
Machine Learning, Computer Science, College of Engineering

FROM: Warwick A. Arden, Executive Vice Chancellor and Provost
Mladen Vouk, Vice Chancellor, Research and Innovation



SUBJECT: Artificial Intelligence (AI) Advisory Group

DATE: April 2, 2024

Artificial intelligence (AI) will transform higher education. NC State seeks to continue and expand its national and global excellence and reach in the application of AI through research, in teaching and in university management. This will require the ability to be anticipatory and adaptable as technology continues to change. This advisory group will help NC State lead in the innovation and application of AI. It will be key in advising NC State leadership on strategic direction to anticipate AI use in short, intermediate and long-term future scenarios as well as generate ideas for potential responses to those scenarios.

This advisory group will also play a key role in anticipating and considering the challenges of such innovation and implementation. In this context, the advisory group will need to ask questions such as:

1. How do we ensure data privacy and security in light of AI advances in classrooms at NC State?
2. How do we define and monitor appropriate use of AI in research labs and classrooms?
3. How do we develop a reliable and trustworthy AI-based system while identifying and anticipating its potential biases?
4. How do we anticipate the university education system of the future, in light of AI? In this context, what are best practices for evaluation in the classroom when both students and instructors are using AI?
5. How do we train students such that their education is resilient relative to changes in available jobs?

This is not an exhaustive list and no doubt the key questions will change as the technology changes. This advisory group will meet both as a whole and as two subgroups. The first subgroup will focus on AI and the future of research, with a key consideration being the question of how NC State will continue to serve as a hub for innovation and application of AI research tools. The second subgroup will focus on AI in higher education, with key considerations including the ways in which NC State can lead in the implementation of AI in administration, education and other dimensions of running a world class university.

The advisory group should bring in key campus stakeholders to help consider particular topics. The advisory group will build on ongoing work by Executive Director Levy and Associate Vice Chancellor Alyson Wilson considering the state of AI on campus. This will be an ongoing advisory group and will meet regularly with us. Please confirm your willingness to participate by the end of day, Friday, April 5 via email with a cc to Kelly Wick and we will schedule an initial meeting to discuss this charge.