



# Responsible Adoption of Generative AI in Higher Education: Developing a “Points to Consider” Approach Based on Faculty Perspectives

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## ABSTRACT

This paper proposes an approach to the responsible adoption of generative AI in higher education, employing a “points to consider” approach that is sensitive to the goals, values, and structural features of higher education. Higher education’s ethos of collaborative faculty governance, pedagogical and research goals, and embrace of academic freedom conflict, the paper argues, with centralized top-down approaches to governing AI that are common in the private sector. The paper is based on a semester-long effort at the University of Pittsburgh which gathered and organized perspectives on generative AI in higher education through a collaborative, iterative, interdisciplinary process that included recurring group discussions, three standalone focus groups, and an informal survey. The paper presents insights drawn from this effort—that give rise to the “points to consider” approach the paper develops. These insights include the benefits and risks of potential uses of generative AI in higher education, as well as barriers to its adoption, and culminate in the six normative points to consider when adopting and governing generative AI in institutions of higher education.

## CCS CONCEPTS

• **Social and professional topics** → Computing / technology policy.

## KEYWORDS

higher education, generative AI, policy making, points to consider

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## 1 INTRODUCTION

Over the last year, generative AI (GenAI) took academia by storm. The technology deeply impacts higher education on multiple levels,

from the practicalities of day-to-day work to the ideals the sector seeks to promote [e.g., 24, 34, 76]. Given the magnitude of the current and potential future impacts of GenAI on higher education, institutions of higher education (IHEs) are pressed to decide how to approach the adoption of GenAI, and to make these decisions sooner rather than later.

With that in mind, many seek to better understand how GenAI impacts higher education and how to use and govern it responsibly in this context. Researchers often survey the perspectives of students, faculty, staff, and administrators, typically trying to understand how GenAI tools are used and key concerns regarding their use [e.g., 12, 14, 15, 19, 60, 65, 66]. Others conduct focus groups with students and faculty to explore the same questions, albeit less frequently [e.g., 42, 61]. Yet others conduct desk analyses [e.g., 15, 76] or articulate their own views [e.g., 2, 69, 72, 73].

This paper presents insights and points to consider about GenAI in higher education arising from a semester-long effort at the University of Pittsburgh which included a semester-long semi-structured group discussion (29 participants), three standalone focus groups (19 participants overall), and an informal survey (144 respondents). Overall, the effort gathered and organized rich and in-depth perspectives drawn from individuals, particularly faculty members, working in the humanities, arts, sciences, social sciences, health sciences, and professional schools. Section 2 describes the effort itself in more detail.

Section 3 distills reasons for IHEs to adopt GenAI and barriers to adoption. In brief, the reasons for adoption point out that adoption is pivotal for the promotion of the goals and values of IHEs and their economic well-being. One challenge is the low faculty familiarity with both GenAI tools and their potential benefits and risks. Another challenge is the potential for the integration of GenAI to over-burden faculty in various disciplines.

Section 4 presents GenAI use cases, benefits, and risks participants identified. These are especially valuable given the challenge of low familiarity, and they are complementary to the identification of uses, benefits, and risks articulated from other perspectives, such as intergovernmental agencies [74, 75] and students [12]. It also presents ideas for GenAI-related assignments that emerged in the focus groups. These include assignments that require the use of GenAI and assignments that decrease the potential for cheating using GenAI.

Section 5 articulates points to consider for making decisions about GenAI in higher education, including decisions about where policy is needed, what to include in policies, and guidance for individual decisions regarding use of GenAI tools. It begins by examining the “top-down” approach taken by many private sector

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