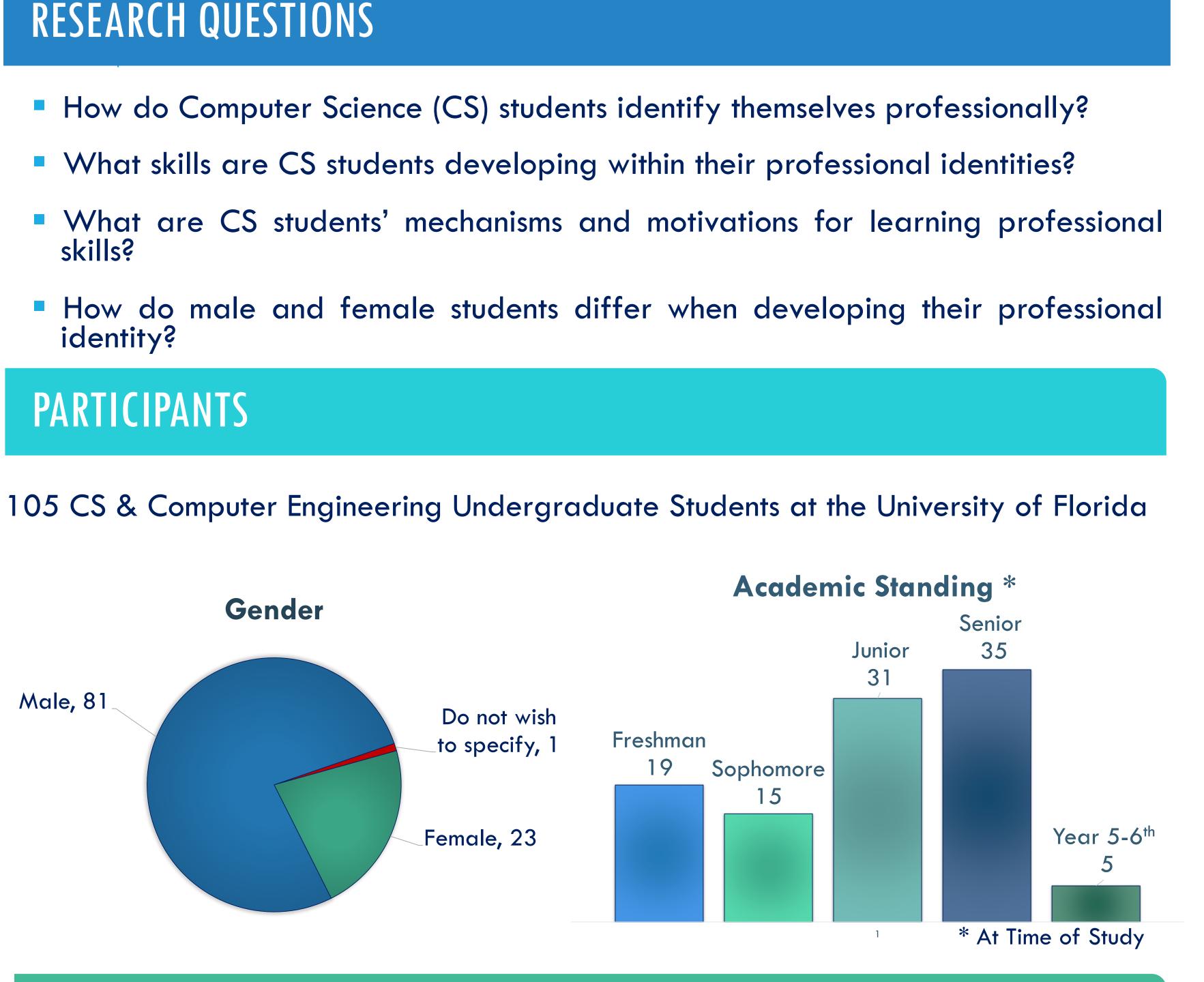


UNDERSTANDING HOW COMPUTER SCIENCE UNDERGRADUATE STUDENTS ARE DEVELOPING THEIR PROFESSIONAL IDENTITIES

- skills?
- identity?

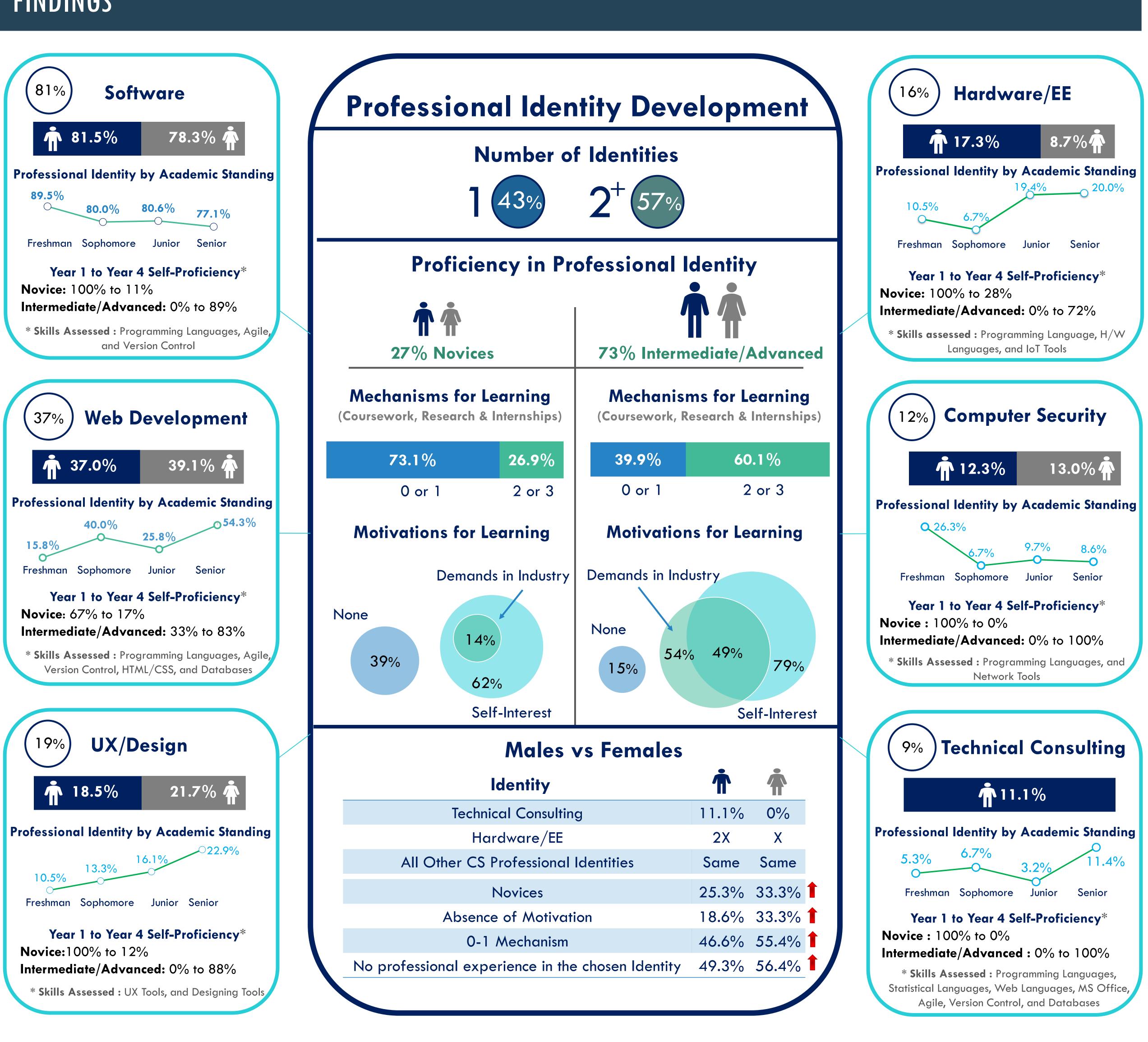


METHODS

Survey Question Areas	Analysis Metric	Example
Professional Identity	Multiple selection question consisting of areas from the 2013 ACM CS Curricula Report and CS Industry Occupations	Software Developer, Web Developer, UX/Design
Proficiency in technical competencies	Average Proficiency Score (0-3): None [0], Novice (0,1], Intermediate (1,2], Advanced (2,3] - Average of Self- reported proficiency for a skill set pertinent to chosen professional identity	UX : Average (Proficiency in Design Tools + Proficiency in UX Tools)
Mechanisms for developing technical competencies	Self-Reported Mechanism Score (0-3) : Used 0, 1, 2 or 3 mechanisms - None, Coursework, Research and Professional Experience	UX : Union (Mechanism for learning Design Tools, Mechanism for learning UX Tools)
Motivations for developing technical competencies	Four categories : None, Self-Interest, and Demands in the Industry. The fourth category included students who were motivated by the presence of both Self- Interest and Demands in the Industry.	UX : Union (Motivation for learning Design Tools, Motivation for learning UX Tools)

Amanpreet Kapoor & Christina Gardner-McCune Department of Computer & Information Science & Engineering, University of Florida, kapooramanpreet@ufl.edu

FINDINGS



CONCLUSIONS

Multiple motivations and mechanisms for learning distinguishes an intermediate/advanced learner from a novice learner CS students identify themselves generically as software professionals in the first year, and over time more students identified themselves in more specialized CS/CE professions As CS students begin exploring their professional identities, there is a need to ensure they have access to a various CS

careers and mechanisms for exploring them