

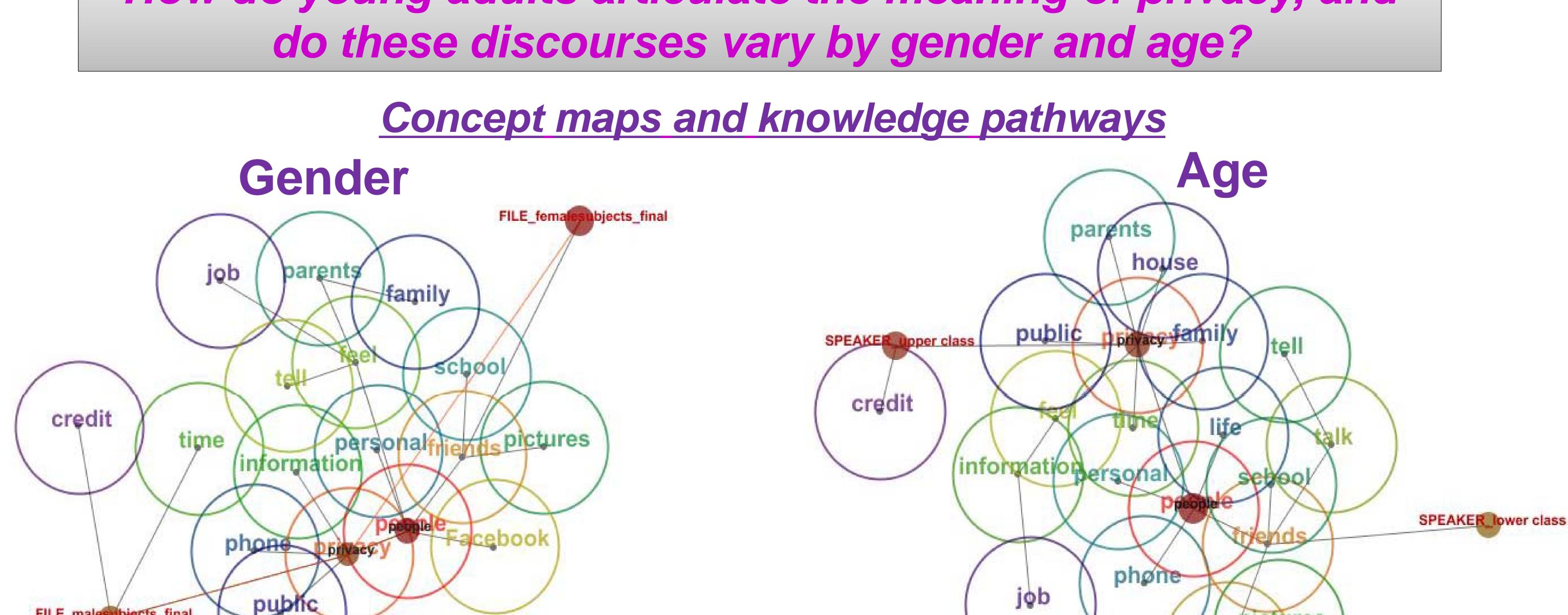
2010 - 979-1AC - Privacy in Sociotechnical Realms - Semantic Network Analysis of Discourses - Preeti Rao - TSHI

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# Privacy in Sociotechnical Realms Semantic Network Analysis of Discourses Preeti Rao and Lorraine Kisselburgh, Purdue University

How do young adults articulate the meaning of privacy, and





#### **Concept co-occurrences**

Concept co-occurrences		Gender		Age	
		Men	Women	Lower	Upper
Relational themes	Family	0.29	0.70	0.24	0.62
	Friends	0.37	0.58	0.64	0.32
	School	0.29	0.70	0.64	0.35
	Pictures	0.23	0.64	0.63	0.24
	Feelings	0.42	0.57	0.28	0.72
Material themes	Credit	0.69	0.31	0.0	0.90
	Job	0.84	0.16	0.25	0.54
	House	0.62	0.37	0.34	0.55
	Information	0.61	0.39	0.23	0.72
	Phone	0.74	0.25	0.44	0.45

## Implications



Participants (N=61) were 33 female (54%) and 28 male (46%) undergraduate students (average age 20.17, SD = 1.32). In-depth, semistructured interviews were conducted using open-ended questions and hypothetical scenarios. A total of 28 hours of recorded text were transcribed, yielding 371 pages of single-spaced text. Analysis of the text was conducted using *Leximancer* semantic network software to generate conceptual maps, knowledge pathways, and concept co-occurrences.

### Discussion

Discursive research provides unique insights into the shifting meanings of privacy in 21<sup>st</sup> century sociotechnical realms. Current research favors material privacy concerns such as identity theft and data privacy. Discourses of young adults indicate privacy is meaningful, yet in varied ways: Males and upperclassmen more typically articulate privacy in material and informational terms, while females and underclassmen tend to articulate privacy in relational terms. Thus gender and age contextually influence privacy concerns: As students near graduation, material consequences become more salient and shift concerns of privacy away from the relational issues more common in early college years.

System designers should recognize privacy concerns vary in young adults, and can include relational as well as material concerns. Design options might address varied needs in: a) profile creation; b) privacy setting controls; c) "image" monitoring; and d) the use of relational contexts for privacy control.

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