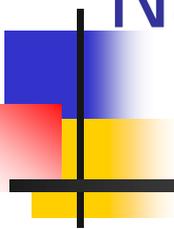


# Antecedents of Consumer Trust in Online Health Information: Findings from the Health Information National Trends Survey

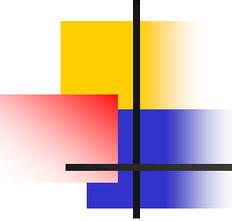


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Yinjiao Ye, Ph.D.

Department of Communication Studies

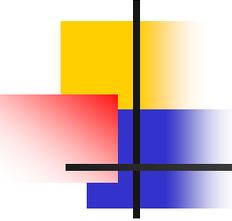
University of Rhode Island



# Intro

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- A dramatic increase of consumer's search for health information online
  - Pew Research Center (2005)
- Low credibility
  - Eysenbach, Powell, Kuss and Sa (2002)
- Consumer trust in online health information



# Literature Review

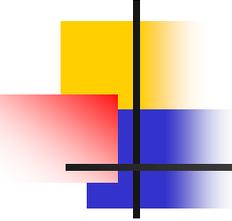
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- Trust in online health information
  - Source authority
  - Information currency
  - Easiness to read
  - Inclusion of scientific references
  - Professional site design

# Literature Review (Continued)

## Predictors of Trust

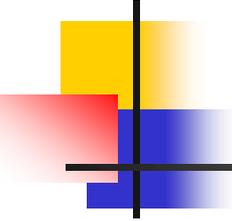
- Personal capital
  - Resources: income, education, health, good look
- Social capital
  - Network ties in a person's social relationship
  - Trust is one main element of social capital
  - The breadth and depth of social network predicts...
- Trust transference
  - Transfer from a trusted third party to another party with which the trustor has little or no knowledge
- Information Features



# Research Questions & Hypotheses

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- Personal Capital
  - RQ1a: Does education predict trust in online health information?
  - RQ1b: Does income predict trust in online health information?

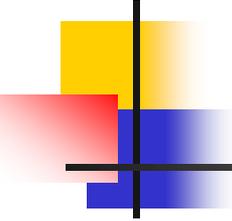


# Research Questions & Hypotheses Continued

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- Social Capital

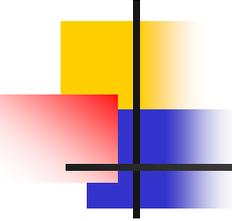
- H1a: People who participate in an online support group for people with a similar health or medical issue trust online health information more than those who do not.
- H1b: People who visit a social networking Web site such as MySpace or Second Life trust online health information more than those who do not.



# Research Questions & Hypotheses Continued

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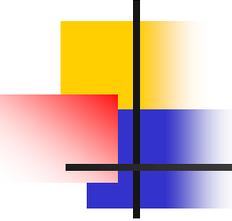
- Trust transference
  - RQ2a: Does trust in health information provided by doctors predict trust in online health information?
  - RQ2b: Does trust in health information provided by family and friends predict trust in online health information?
  - RQ2c: Does trust in health information provided by traditional media including radio, newspapers/magazines, and television predict trust in online health information?
  - RQ2d: Does trust in health information provided by government health agencies predict trust in online health information?



# Research Questions & Hypotheses Continued

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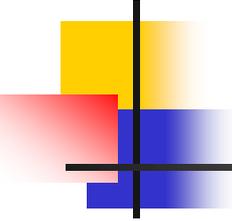
- Information Quality
  - H2a: The more effort to locate health information, the less trust in online health information.
  - H2b: The harder to understand health information, the less trust in online health information.



# Methods

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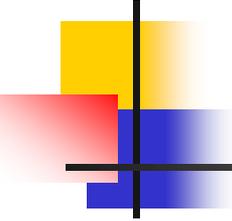
- Sample
  - 2007 HINTS mail sample, 3582 adults
  - Gender
    - 1382 (38.6%) males
    - 2191 (61.2%) females
  - 18 to 95 years old;  $M = 52$  ( $SD = 16.83$ )
  - Race
    - 2479 (69.2%) Caucasians
    - 440 (12.3%) African Americans
    - 314 (8.8%) Hispanics
    - Asians, American Indian or Alaska Natives, and Native Hawaiian or other Pacific Islanders



# Methods

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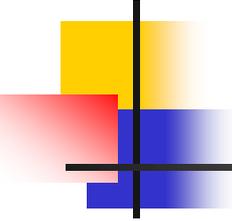
- *Measures*
  - *Trust in online health information*
  - *Personal capital (RQ1a & RQ1b)*
    - Income
    - Education
  - *Social capital indicators (H1a and H1b)*
    - Participation in an online support group
    - Visiting social networking Web sites
  - *Trust in other sources of health information (RQ2a, b, c, and d).*
    - a doctor, family or friends, newspapers or magazines, radio, television, and government health agencies,
  - *Information features (H2a & H2b)*
    - “It took a lot of effort to get the information you needed”
    - “The information you found was hard to understand.”



# Methods

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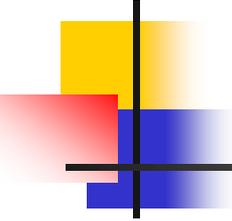
- Analysis
  - SAS Surveyreg procedure
  - Unadjusted



# Results

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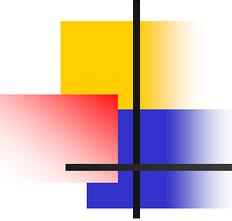
- Personal Capital (RQ1a and RQ1b)
  - Income:  $F(1, 3581) = 2.14, p > .05$
  - education:  $F(1, 3581) = 1.12, p > .05$ .
- Social capital (H1a and H1b)
  - participation in online support groups
    - $F(1, 3581) = 6.52, p < .05; \beta = -.13 (SE = .05)$
  - visiting social networking Web sites
    - $F(1, 3581) = 2.28, p > .05$ .



# Results

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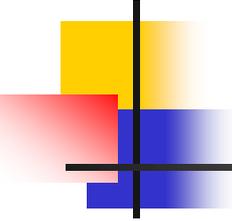
- Trust transference
  - trust in health information provided by doctors
    - $F(1, 3581) = .76, p > .05$ .
  - trust in health information provided by informal interpersonal sources including family and friends
    - $F(1, 3581) = .19, p > .05$ .
  - trust in health information offered **by traditional media**
    - newspapers and magazines:  $F(1, 3581) = 19.55, p < .001, \beta = .12 (SE = .03)$ ,
    - TV :  $F(1, 3581) = 65.47, p < .001, \beta = .18 (SE = .02)$ .
    - Radio:  $F(1, 3581) = 4.46, p < .05, \beta = -.05 (SE = .02)$ .
  - trust in health information offered **by government health agencies**
    - $F(1, 3581) = 26.93, p < .001, \beta = .11 (SE = .02)$ .



# Results

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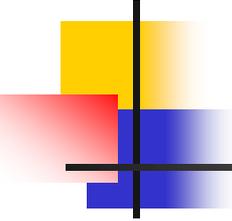
- Info features (H2a & H2b )
  - the harder to find health information, the less trust in online health information,
    - $F(1, 3581) = 17.50, p < .05, \beta = -.07 (SE = .02)$
  - the harder to understand health information, the less trust in online health information,
    - $F(1, 3581) = 11.69, p < .01; \beta = -.06 (SE = .02)$ .



# Discussion and Conclusions

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- trust in online health information
  - Personal capital: education and income are not significant.
    - health literacy; self-confidence
  - Social capital: participation in online support groups but not visiting social network websites
    - Bonding vs. bridging social capital
  - Trust transfer
    - traditional mass media and government health agencies
    - Similarity between trust targets
  - Information characteristics
    - easiness to find and to understand



# Limitations & Future Research

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- Directionality
  - Cross-sectional
- Analyses
  - Unadjusted
  - Telephone sample and mode effects
- Only a small fraction of participants participated in online support groups (3%) or used social networking Web sites (17%)
  - Young adults were less than 25% of the surveyed respondents