Choosing a Research Topic

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Research

1. Finding a research topic
2. Finding an advisor
3. Doing Research
Who are you?
- Are you interested in theory?
- Are you “applied”?
- Are you interested in graphics?
- Are you interested in software/hardware?

What are your personal goal?
- Industry
- Academia

Topics in Computer Science

a. **Security**: network security, system security, formal methods, social networking, mobile security (especially cell phones)
b. **Theory**: computational geometry, computational biology, cryptography, algorithms, optimization
c. **Systems**: programming languages, parallel computation, operating systems, software engineering
d. **Networking**: optical, wireless, ad hoc, sensor, protocols, cognitive, security
e. **Architecture**: VLSI design
f. **Graphics**: visualization, rendering, animation, geometric modeling
g. **Databases and information systems**: provenance, data sharing, incomplete and probabilistic databases, security Artificial intelligence: machine learning, data mining
Research Topic

Read, Read, Read

Get exposed to research

Independent research project

Research Topic

Read, Read, Read

Read intelligently, critically, actively

Get exposed to research

Get informed! Listen to NPR, read magazines
Go to seminars

Independent research project

Independent Research Study