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EDUCATION:

Trent University, Canada

B.Sc., 1980. Joint Major: Psychology & Anthropology.
Honors B.Sc., 1981. Cognitive Psychology.

Carnegie-Mellon University, Pittsburgh, PA.

M.S., 1982, Cognitive Psychology.
Ph.D., 1985, Cognitive Psychology.

RESEARCH INTERESTS:

Theories and models of human information interaction. Socially mediated sense making. Information Foraging Theory. Models of information scent. Web usability. Theories and models of complex cognition, knowledge, and learning, and associated theories of measurement.

PROFESSIONAL EXPERIENCE:

2005-present: Research Fellow, User Interface Research, Palo Alto Research Center
1998-2005: Principal Scientist, User Interface Research, Xerox Palo Alto Research Center
1992-1998: Research Staff, User Interface Research, Xerox Palo Alto Research Center
1991-1994: Associate Professor, School of Education, University of California, Berkeley.
1991-1992: Associate Director, UC Berkeley Cognitive Science Program.
1991-1992: Undergraduate Advisor, Cognitive Science Majors
1985-1991: Assistant Professor, School of Education, University of California, Berkeley.
1990-1993: Editor, *Instructional Science*.
1985-1991: Affiliate, Xerox Palo Alto Research Center
1985-1991: Affiliate, Institute for Research on Learning.
1986-1990: Editorial board, *Technology & Education*.

FELLOWSHIPS AND ACADEMIC HONORS

2007: Fellow of the Association for Psychological Science
2006: Fellow of the CHI Academy
2004: Fellow of the American Association for the Advancement of Science
1987: Invited Fellow, Center for Advanced Study in the Behavioral Sciences
1986: Fellow of the National Academy of Education
1983: IBM Research Fellowship.
1981: Trent University Psychology Award
1979: Trent University Faryon Award for outstanding freshman achievement.

PUBLICATIONS :

- Fu, W. and Pirolli, P. (in press). SNIF-ACT: A model of user navigation on the World Wide Web. *Human Computer Interaction*.
- Gugerty, L., Billman, D., Pirolli, P., and Elliott, A. (in press). An exploratory study of the effect of domain knowledge on Internet search behavior: The case of diabetes. In the *Proceedings of the 51st Annual Conference of the Human Factors and Ergonomics Society*.
- Hutchins, S.G., Pirolli, P., and Card, S.K. (in press). What makes intelligence analysis difficult? *Journal of Military Psychology*.
- Sharit, J., Hernandez, M.A., Czaja, S.J., & Pirolli, P. (in press). The roles of knowledge and cognitive abilities in older adult information seeking on the Web. *ACM Transactions on Computer-Human Interaction*.
- Budiu, R., Royer, C., & Pirolli, P. (2007). Modeling information scent: A comparison of LSA, PMA, and GLSA similarity measures on common tests and corpora. In the *Proceedings of RIAO 2007*. Pittsburgh, PA.
- Chi, E., Pirolli, P., and Lam, S.K. (2007). Aspects of augmented social cognition; Social information foraging and social search. In the *Proceedings of the Human-Computer Interaction International Conference*.
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- Pirolli, P. (2006). The use of proximal information scent to forage for distal content on the World Wide Web. In A. Kirlik (Ed.) *Adaptive perspectives on human-technology interaction*. (pp. 247-266). Cambridge: Oxford University Press.
- Pirolli, P., Fu, W., Chi, E.H., & Farahat, A. (2006). Information scent and Web navigation; Theory, models, and automated usability evaluation. *The Next Wave*, 15(2), 5-12.
- Raluca Budiu & Peter Pirolli (2006). Navigation in degree of interest trees. *Proceedings of the Advanced Visual Interfaces (AVI) Conference*, Venice, Italy.
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- Chi, E.H. and Pirolli, P.L. (2007). *Systems and methods for assessing user success rates of accessing information in a collection of contents*. U.S. Patent US7203899.

- Stefik, M.J. and Pirollo, P.L. (2006). *System for controlling the use of digital works using removable content repositories*. U.S. Patent US7117180.
- Stefik, M.J. and Pirollo, P.L. (2006). *Composite digital works having usage rights and method for creating the same*. U.S. Patent US7113912.
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- Stefik, M.J. and Pirollo, P.L. (2006). *Method for loaning digital works*. U.S. Patent US7058606.
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- Stefik, M.J. and Pirollo, P.L. (2006). *Method and system for conducting transactions between repositories using a repository transaction protocol*. U.S. Patent US7043453.
- Stefik, M.J. and Pirollo, P.L. (2006). *System and method for controlling distribution and use of digital works using price specifications*. U.S. Patent US7039613.
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GRANTS AND CONTRACTS AWARDED:

Pirolli, P. (2006). *Affordable cognitive modeling for interface design, workload design, and procedure development*. Subcontract to Office of Naval Research Proposal. Funded 2006.

Card, S.K. and Pirolli, P. (2002). *Theory and design of adaptable human information interaction systems for intelligence work*. Proposal to the Advanced Research and Development Activity. Funded 2002-2004. Renewed 2004-2006.

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Pirolli, P. & Card, S.K. (1999). *Foraging, visualizing, making sense, and using information: Theory and methods for human-web-interaction*. Proposal to the Office of Naval Research. Funded 1999-2002.

Pirolli, P. & Card, S.K. (1995). *The ecology of information work under deadline pressure*. Proposal to the Office of Naval Research. Palo Alto, CA Xerox PARC. Funded 1996-1999.

Pirolli, P. (1991). *The psychological role of sketching in design problem solving*. Proposal to the Office of Naval Research. Funded for 1991.

Wilson, M. & Pirolli, P. (1991). *Strategies of skill acquisition: A mixture model approach to measurement in the context of intelligent tutoring systems*. Proposal to the Office of Naval Research that received funding for 1991-1994.

Russell, D. M., & Pirolli, P. (1989) *Computer-assisted instructional design for computer-based instruction*. Proposal funded by the National Center for Vocational Education.

Pirolli, P. (1989). *Strategies and mechanisms for the construction and refinement of programming knowledge: A unified computational model of learning*. Proposal to NSF Directorate for Computer and Information Sciences, Funded 1990-1993.

Pirolli, P. (1987). *Knowledge and processes for design*. Proposal to the Office of Naval Research for project that received funding for 1987-1991.

UNPUBLISHED PAPER PRESENTATIONS – 2002 TO 2007:

Pirolli, P. (2007, August). *Information foraging and sensemaking theory: Playing both sides of the street*. Paper presented at the 115th Annual Convention of the American Psychological Association. San Francisco, CA.

Pirolli, P. (2007, February). *Beyond information foraging to ecologies of sense making*. Keynote Presentation to the Annual Meeting of the Human-Computer Interaction Consortium. Denver, CO.

Pirolli, P. (2007, August). *Information foraging theory*. Paper presented at the 115th Annual Convention of the American Psychological Association. San Francisco, CA.

Pirolli, P. (2006, August). *Analysis of the task environment of sense making*. Paper presented at the 29th Annual International ACM SIGIR Conference. Seattle, WA.

Pirolli, P. (2005, May). *The cognitive structure of sensemaking*. Keynote paper presented at the Seventh International Workshop of the EU Network of Excellence DELOS on Audio-Visual Content and Information Visualization in Digital Libraries (AVIVDiLib'05), Cortona, Italy.

Pirolli, P. (2005, April). *Leverage points for sensemaking technologies identified through cognitive task analysis*. Paper presented at the Sensemaking Workshop, Portland, OR.

Pirolli, P. (2004, August). *Information foraging theory and the rational analysis of human-information interaction*. Paper presented at the 26th Annual Conference of the Cognitive Science Society, Chicago, IL.

Pirolli (2003). *Cognitive models of information foraging*. Paper presented at the University of Miami, CREATE Seminar series; IBM Colloquium Series, IBM Almaden, CA

Hutchins, S. G., Pirolli, P., & Card, S. (2003). *Use of Critical Analysis Method to conduct a cognitive task analysis of intelligence analysts*. Paper presented at the 6th International Conference on Naturalistic Decision Making, Pensacola, FL.

Pirolli, P. (2002, October). *Adaptive information interaction*. Paper presented at the Office of Naval Research Workshop on New Directions in Cognitive Science and Human Performance. Las Cruces, NM: New Mexico State University.

TEACHING EXPERIENCE AND TUTORIALS:

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|------------|--|
| 2007 | SIGCHI Tutorial on Information Foraging Theory. |
| 2002-2003 | SIGCHI, University of Tuebingen Summer School, User Experience 2003 (Nielsen Norman Group). Tutorials on Information Foraging (with Stuart K. Card). |
| 1985-1995: | University of California, Berkeley: Introductory cognitive science, artificial intelligence, unified theories of cognition, intelligent tutoring systems, cognitive modelling, human and machine learning, computer systems design, introduction to computers. |
| 1982-1985: | Psychology Department, Carnegie-Mellon University. Co-taught courses with John R. Anderson on psychology, artificial intelligence, and intelligent tutoring systems. |

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Born April 27, 1959 in Oshawa, Ontario, Canada. Canadian and Italian citizenships. Permanent resident of the United States. Currently living and surfing in San Francisco.