

Catherine Plaisant

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Professional experience

6/09 – present : Senior Research Scientist, U. of Maryland Inst. for Adv. Computer Studies
2018 – 2022 : INRIA International Chair
6/00 – 6/09 : Associate Research Scientist
1/97 – present : Associate Director of Research, Human-Computer Interaction Laboratory
1/96 - 1/97 : Acting Director of HCIL
4/90 - 6/00 : Assistant Research Scientist
8/87 - 3/90 : Research Associate

11/12 – present: Affiliate Senior Research Scientist - College of Information Studies,
Maryland's iSchool

10/82 - 4/87: Research Associate at "Centre Mondial Informatique et Ressource Humaine"
A government funded research center in Paris, France.

6/83 - 4/87 : Technical manager of the Research Group on "Apprentissage" (learning)
Design and development of educational software for reading readiness.

10/82 - 6/83 : Research and development in the "man-machine communications group".

Education

Docteur Ingénieur (French diploma corresponding to a PhD in Industrial Engineering)
1982 - Université Pierre et Marie Curie - Paris, France (now Sorbonne University)

Conception and Implementation of a Voice Telecommand System for Quadraplegic Users.
Engineer, 1979, Ecole Nationale Supérieure des Arts et Métiers, Paris, France.
Industrial Engineering degree beyond BS level

HONORS

- ACM SIGCHI Lifetime Service Award (2020).
- ACM SIGCHI: Elected to the CHI Academy - recognizing principal leaders of the field of Human-Computer Interaction (2015)
- ACM Transactions on Interactive Intelligent Systems (TiiS) 2019 Best Paper Award
- University of Maryland CMNS Dean's Distinguished Research Scientist Award 2017
- Honorable mention paper award from the *ACM CHI Conference 2017*
- Impact Award from the *Beyond Time And Errors: Novel Evaluation Methods For Visualization (Beliv) Workshop 2016*

- Distinguished Paper Award from the American Medical Informatics Association AMIA 2013
- Best Paper Honorable Mention from IEEE Visual Analytics Science and Technology 2013
- Greg Herrington Award from the National Academy of Sciences Transportation Research Board (TRB) for Excellence in Visualization Research (2013)
- Nomination for Best Paper award: ACM/IEEE Joint Conference on Digital Libraries (2006)
- Invention of the Year Award – UMD Office of Technology Commercialization (2000)
- DigiCosme Invited Professor - June-July 2017 (Paris Saclay)

Keynote speaker at *Journées Visu* (Paris, 2017)

Keynote speaker for *Logging Interactive Visualizations & Visualizing Interaction Logs* 2016

Keynote speaker for *IE Lab Conference (University of Missouri – 2013)*

Keynote speaker for *NEAIR 2012 (North East Association for Institutional Research)*

Keynote speaker for *Diagrams 2012* (Canterbury, UK, 2012)

Keynote speaker for *Graphics Interface, GI'2010* (Ottawa, CA, 2010)

Keynote speaker for *Distributed Multimedia Systems Conference, DMS'06* (2006)

Keynote speaker for the *Conference on Advanced Visual Interfaces, AVI 2004* (2004)

Keynote speaker for *Interface-Homme-Machine, IHM'04* (2004) – with Jean-Daniel Fekete

Invitation to prestigious panels:

NVAC workshops “Illuminating the path: R&D Agenda for Visual Analytics” (2004)

NIH/NSF Visualization Research Challenges Workshop (2004)

National Academy of Engineering workshop on Medical Patient Record Technology (2003)

PUBLICATIONS

H index = 62; Citations = 32158 (using Google Scholar on 2/1/2020)

Books (2)

Shneiderman, B., Plaisant, C., Cohen, M., Jacobs, S., Elmqvist, N., Diakopoulos, N., *Designing the User Interface*, Pearson - 4th Edition (2004), 5th Edition (2009), 6th Edition (2016).

Barrière, M., Cohen, R., Halfter, C., Naymark, J., Plaisant, C., Stambach, C., *Les jeunes enfants, la découverte de l'écrit et l'ordinateur*, (i.e. Young children, the discovery of the written language and computers) Presse Universitaire de France, Paris (1987).

Electronic books (1)

Belden, J., Lowrance, N., Patel, J., Plaisant, C., Koopman, R., Moore, J., Johnson, T., Gangwal, S., Sonin, J., *Inspired EHRs: Designing for Clinicians* (2014)

See: inspiredehrs.com

Books chapters (13)

13- Onukwugha, E., Plaisant, C., Shneiderman, B., Data Visualization Tools for Investigating Health Services Utilization Among Cancer Patients, in Hesse, B., Ahern, D., and Beckjord, E. (Eds.) *Oncology Informatics*, Elsevier (2016)

*** Received the “PROSE Award” (Professional and Scholarly Excellence) for best book in clinical medicine.

12- Yalcin, A., Plaisant, C., Information Visualization, in Foster, I., Ghani, R., Jarmin, R., and Kreuter, K., Lane., J. (Eds.) *Big Data and Social Science Research: Theory and Practical Approaches*, Taylor Francis (2016)

11- Plaisant, C., Monroe, M., Meyer, T., Shneiderman, B., Interactive Visualization, in Marconi, K. and Lehman (Eds.) *Big Data and Health Analytics*, CRC Press - Taylor and Francis Inc. (2014) 243-262

10- Zhao, H., Shneiderman, B., Plaisant, C., Listening to Choropleth Maps: Interactive Sonification of Geo-referenced Data for Users with Vision Impairment, in Lazar, J. (Ed.) *Universal Usability*, John Wiley & Sons Ltd., Hoboken, NJ (2008) 141-174

9- Shneiderman, B., Baker, H. R., Duarte, N., Haririnia, A., Klinessmith, D., Lee, H., Velikovich, L., Wanga, A., Westhoff, M., Personal Role Management: Overview and a Design Study of Email for University Students, in Kaptelinin, V., Czerwinski, M. (Eds.) *Integrated Digital Work Environments: Beyond the Desktop*, MIT Press (2007) 143-170

8- Plaisant, C., Laskowski, S., Evaluation Methodologies for Visual Analytics Section 6.1, in Thomas, J., Cook, K. (Eds.) *Illuminating the Path, the Research and Development Agenda for Visual Analytics*, IEEE Press, (2005) 150-157

7- Plaisant, C., Information visualization and the challenge of universal access, in *Exploring Geovisualization* (Eds, J. Dykes, A. MacEachren and M.-J. Kraak), Oxford: Elsevier, (2005) 53-82

6- Marchionini, G., Plaisant, C., Komlodi, A., The people in digital libraries: Multifaceted approaches to assessing needs and impact, in A. Bishop, B. Bittenfield, & N. VanHouse (Eds.) *Digital Library Use: Social Practice in Design and Evaluation*, Cambridge, MA, MIT Press, (2003) 119-160

5- Plaisant, C, Milash, B., Rose, A, Widoff, S., Shneiderman, B., LifeLines: Visualizing personal histories, in Card, S., Mackinlay, J., Shneiderman, B. (Eds) *Readings in Information Visualization: Using Vision to Think*, Morgan Kaufmann Publishers, San Francisco, CA, (1999) 287-294

4- Plaisant, C., Sears, A., Touchscreen interfaces for flexible alphanumeric data entry, in *Human factors Perspectives on Human-Computer Interaction (Selection from Proceedings of Human Factors and Ergonomics Society Annual Meetings 1983-1994)* Perlman, G., Green, G., Wogalter, M. (Eds), Human Factors and Ergonomics Society, Santa-Monica CA, (1995) 261-265

3- A. Sears, C. Plaisant and B. Shneiderman, A new era for high-precision touchscreen applications, in Hartson H. R. and Hix D. (Eds.) *Advances in Human-Computer Interaction*, Vol. 3., Ablex, Norwood, (1993) 1-33

2- Plaisant, C., Guide to Opportunities in Volunteer Archaeology - Case study of the use of a hypertext system in a museum exhibit, in Berk E., Ed. *Hypertext/Hypermedia Handbook*, McGraw-Hill Publ. (1991), Also in Ben Shneiderman Ed. *Sparks of Innovation in Human Computer Interaction*, Ablex, Norwood, (1993) 223-229

1- Plaisant, C., Shneiderman, B. and Battaglia J, Scheduling home-control devices: a case study of the transition from a research project to a product, in Ben Shneiderman Ed. *Sparks of Innovation in Human Computer Interaction*, Ablex, Norwood, (1993) 205-217

eBooks chapters (2)

1- Belden JL, Lowrance N, Patel J, Koopman R, Moore J, Plaisant C, Johnson T, Sonin J. EHR design ebook. Inspired EHRs: designing for clinicians. In: Zhang J, Walji M, editors. *Better EHR: usability, workflow & cognitive support in electronic health records*. Houston, TX: University of Texas School of Biomedical Informatics (2014) 207-217

2- Tarkan, S., Franklin, L., Plaisant, C., Shneiderman, B.; Design Guidelines for Ensuring Timely Management of Medical Orders, in Zhang J, Walji M, eds. *Better EHR: usability, workflow & cognitive support in electronic health records*. Houston, TX: University of Texas School of Biomedical Informatics (2014) 239-247

Edited Books (Proceedings) (3)

3- Bertini, E., Perer, A., Plaisant, C., Santucci, G. (Eds.) *BELIV'08 Proceedings (BEyond time and errors: novel evaluation methods for Information Visualization)*, ACM Digital Library, New York (2008) 98 pages.

2- Bertini, E., Plaisant, C., Santucci, G. (Eds.) *BELIV'06 Proceedings (BEyond time and errors: novel evaluation methods for Information Visualization)*, ACM Digital Library, New York (2006) 92 pages.

1- Plaisant, C., *CHI' 94 (Human Factors in Computing Systems) Conference Companion*, ACM, New York (1994) 484 pages.

Articles in refereed journals (63)

63- Valdivia, P., Buono, P., Plaisant, C., Dufournaud, N., and Fekete, J.-D., Analyzing Dynamic Hypergraphs with Parallel Aggregated Ordered Hypergraph Visualization, *IEEE Transactions on Visualization and Computer Graphics* (2019) to appear

62- Du, F., Plaisant, C., Spring, N., Crowley, K., and Shneiderman, B., EventAction: A Visual Analytics Approach to Explainable Recommendation for Event Sequences, *ACM Trans. Interactive Intelligent Systems*, 9, 4 (2019) 31 pages.

** Received the TiiS 2019 Best Paper Award

- 61- Belden, J., Wegier, P. Patel, J., Hutson, A., Plaisant, C., Moore, J. L., Lowrance, N. J., Boren, S. A., Koopman, R. J., Designing a Medication Timeline for Patients and Physicians, *Journal of the American Medical Informatics Association*, 26, 2 (2019) 95-105.
- 60- Shneiderman, B. and Plaisant, C., Interactive visual event analytics: Opportunities and challenges, *IEEE Computer*, 52,1 (2019) 27-35.
- 59- Dimara, E., Franconeri, S., Plaisant, C., Bezerianos, and Dragicevic, P., A Task-based Taxonomy of Cognitive Biases for Information Visualization, *IEEE Transactions on Visualization and Computer Graphics* (2018)
- 58- Krokos, E., Plaisant, C., Varshney, A., Virtual memory palaces: immersion aids recall. *Virtual Reality*, 23,1 (2019) 1-15
- 57- Du, F., Plaisant, C., Spring, N., Shneiderman, B., Visual Interfaces for Recommendation Systems: Finding Similar and Dissimilar Peers, *Transactions on Intelligent Systems and Technology*, 38, 3 (2018) 21-29.
- 56- Chevalier, F., Henry Riche, N., Alper, B., Plaisant, C., Boy, J., Elmqvist, N., Observations and Reflections on Visualization Literacy at the Elementary School Level, *IEEE Computer Graphics & Applications Magazine* (Visualization Viewpoints) 38, 3 (2018) 21-29
- 55- Taieb-Maimon, M., Plaisant, C., Hettinger, A.Z. and Shneiderman, B., Increasing Recognition of Wrong-Patient Errors through Improved Interface Design of a Computerized Provider Order Entry System. *International Journal of Human-Computer Interaction*, 34, 5 (2017) 383-398
- 54- Du, F., Shneiderman, B., Plaisant, C., Malik, S., Perer, A., Coping with Volume and Variety in Temporal Event Sequences: Strategies for Sharpening Analytic Focus, *IEEE Transactions on Visualization and Computer Graphics* 23,6 (2017) 1636-1649
- 53- Malik, S., Du, F., Plaisant, C., Bjarnadottir, M., Shneiderman, B., High-Volume Hypothesis Testing: Systematic Exploration of Event Sequence Comparisons, *ACM Trans. Interactive Intelligent Systems*, 6, 1 (2016) 9 pages.
- 52- Bjarnadottir, M., Malik, S., Onukwugha, E., Gooden, T., Plaisant, C., Understanding Adherence and Prescription Patterns Using Large Scale Claims Data, *PharmacoEconomics* 34, 2 (2016) 169-179.
- 51- Plaisant, C., Shneiderman, B., Belden, J., Twinlist: A Multi-Step Interface to Reconcile Medication Lists. *User Experience Magazine*, 15, 3 (2015)
- 50- Shneiderman, B., Plaisant, C., Sharpening Analytic Focus to Cope with Big Data Volume and Variety: Ten Strategies for Data Focusing with Temporal Event Sequences, *IEEE Computer Graphics and Applications* (Visualization Viewpoints), 35, 3 (2015) 10-14
- 49 - Plaisant, C., Wu, J., Hettinger, AZ, Powsner, S., Shneiderman, B., Novel User Interface Design for Medication Reconciliation: an Evaluation of Twinlist, *J Am Med Inform Assoc.*, 22, 2 (2015) 340-349

- 48- Guerra-Gómez, J., Pack, M., Plaisant, C. and Shneiderman, B., Discovering temporal changes in hierarchical transportation data: Visual analytic & text reporting tools, *Transportation Research Part C: Emerging Technologies*, 51, 2 (2015) 167-179.
- 47 - Franklin, L., Rahman, K. M., Plaisant, C., Shneiderman, B., TreatmentExplorer: an Interactive Decision Aid for Medical Risk Communication and Treatment Exploration, *Interacting with Computers* (2014)
- 46- Ahn, J., Plaisant, C. and Shneiderman, B., A task taxonomy for network evolution analysis, *IEEE Transactions on Visualization and Computer Graphics*, 20, 3 (2014) 365-376
- 45- Guerra-Gómez, J. A., Pack, M. L., Plaisant, C. and Shneiderman, B., Visualizing changes over time in datasets using dynamic hierarchies, *IEEE Transactions on Visualization and Computer Graphic*, 19, 12 (2013) 2566-75
- 44- Monroe, M., Lan, R., Lee, H., Plaisant, C., Shneiderman, B., Temporal Event Sequence Simplification, *IEEE Transactions on Visualization and Computer Graphics*, 19, 12 (2013) 2227-36
 ** Received Best Paper Honorable Mention award
- 43- Scholtz, J., Whiting, M., Plaisant, C., Grinstein, G., Evaluation of visual analytics environments: The road to the Visual Analytics Science and Technology challenge evaluation methodology, *Information Visualization* 13, 4 (2014) 326-335
- 42- Guerra Gómez, J., Buck-Coleman, A., Pack, M., Plaisant, C., Shneiderman, B., TreeVersity: Interactive Visualizations for Comparing Hierarchical Data Sets, *Transportation Research Record (TRR), Journal of the Transportation Research Board* (2013) – 21 pages
 ** Received the Greg Herrington Award from the National Academy of Sciences Transportation Research Board (TRB) for Excellence in Visualization Research.
- 41- Shneiderman, B., Plaisant, C., and Hesse, B. W., Improving health and healthcare with interactive visualization methods, *IEEE Computer - Special Issue on Challenges in Information Visualization* 46, 5 (2013) 58 - 66
- 40- Rind, A., Wang, T., Aigner, W., Miksch, S., Wongsuphasawat, K., Plaisant, C., Shneiderman, B., Interactive Information Visualization for Exploring and Querying Electronic Health Records: A Systematic Review, *Foundations and Trends in Human-Computer Interaction*, 5, 3 (2013) 1-90
- 39- Sopan, A., Freire, M., Taieb-Maimon, M., Golbeck, J., Shneiderman, B., Shneiderman, B. Exploring Distributions: Design and Evaluation, *International Journal of Human-Computer Interaction*, 29, 2 (2013) 77-95
- 38- Wongsuphasawat, K., Plaisant, C., Taieb-Maimon, M., Shneiderman, B., Querying Event Sequences by Exact Match or Similarity Search: Design and Empirical Evaluation, *Interacting with Computers*, 24, 2 (2012) 55–68

- 37- Lam, H., Bertini, E., Isenberg, P., Plaisant, C., Carpendale, S., Empirical Studies in Information Visualization: Seven Scenarios. *IEEE Transactions on Visualization and Computer Graphics*, 18, 9 (2012) 1520-1536
- 36- Kandel, S., Heer, J., Plaisant, C., Henry Riche, N., Lee, B., et al., Research Directions for Data Wrangling: Visualizations and Transformations for Usable and Credible Data, *Information Visualization*, 10, 4 (2011) 271-288
- 35- Wang, T. D., Wongsuphasawat, K., Plaisant, C., and Shneiderman, B., Extracting insights from Electronic Health Records: Case studies, a visual analytics process model, and design recommendations, *Journal of Medical Systems* 35, 5 (2011), 1135-1152
- 34- Kang, H., Plaisant, C., Elsayed, T., Oard, D.W., Making sense of archived e-mail: Exploring the Enron collection with NetLens, *Journal of the American Society for Information Science and Technology*, 61, 4 (2010) 723 - 744
- 33- Henry Riche, N., Lee, B., Plaisant, C., Understanding Interactive Legends: a Comparative Evaluation with Standard Widgets, *Computer Graphics Forum (EuroVis)* 29, 3 (2010) 1193-1202
- 32- Delogu, F., Palmiero, M., Federici, S., Zhao, H., Plaisant, C., Olivetti Belardinelli, M. Non-visual exploration of geographic maps: Does sonification help? *Disability and Rehabilitation: Assistive Technology*, 5, 3 (2010) 164-174
- 31- Wang, T., Plaisant, C., Shneiderman, B., Spring, N., Roseman, D., Marchand, G., Mukherjee, V., Smith, M. Temporal Summaries: Supporting Temporal Categorical Searching, Aggregation and Comparison, *IEEE Transactions on Visualization and Computer Graphics*, 15, (2009) 1049-1056.
- 30- Costello, L., Grinstein, G., Plaisant, C., and Scholtz, J., Advancing User-Centered Evaluation of Visual Analytic Environments through Contests, *Information Visualization*, 8, 3 (2009) 230-238
- 29- Bederson, B.B., Clamage, A., Plaisant, C., Enhancing In-Car Navigation Systems with Personal Experience, *Journal of the Transportation Research Board*, the National Academies, 2064 (2008) 33-42
- 28- Zhao, H., Plaisant, C., Shneiderman, B., Lazar, J., Data sonification for users with visual impairment: A case study with geo-referenced data, *ACM Transactions on Computer-Human Interaction*, ACM , 15, 1 (2008) #4
- 27- Plaisant, C., Fekete, J. D., Grinstein, G., Promoting Insight Based Evaluation of Visualizations: From Contest to Benchmark Repository, *IEEE Transactions on Visualization and Computer Graphics* , 14, 1 (2008) 120-134
- 26- Kang, H., Plaisant, C., Lee B., Bederson, B., NetLens: Iterative Exploration of Content-Actor Network Data, *Information Visualization*, 6 (2007) 18-31

- 25- Lee, B., Parr, C., Plaisant, C., Bederson, B. B., Vekler, V., Gray, W., Kotfila, C., TreePlus: Interactive Exploration of Networks with Enhanced Tree Layouts, *ACM Transactions on Visualization and Computer Graphics*, 12, 6 (2006) 1414-1427
- 24- Shmueli, G., Jank, W., Aris, A., Plaisant, C., and Shneiderman, B., Exploring auction databases through interactive visualization, *Decision Support Systems* 42, 3 (2006) 1521-1538
- 23- Plaisant, C., Bederson, B. B., Clamage, A., Hutchinson, H., Druin, A., Shared Family Calendars: Promoting Symmetry and Accessibility, *ACM Transactions on Computer-Human Interaction*, 13, 3 (2006) 313-346
- 22- Zhao, H., Smith, B. K., Norman, K., Plaisant, C., Shneiderman, B., Interactive Sonification of Choropleth Maps: Design and Evaluation, *IEEE Multimedia*, Special issue on interactive sonification 12, 2 (2005) 26-35
- 21- Kules, B., Kang, H., Plaisant, C., Rose, A., Shneiderman, S., Immediate Usability: A Case Study of Public Access Design for a Community Photo Library, *Interacting with Computers*, 16 (6) (2005) 1171-1193
- 20- Hornbaek, K., Bederson, B., Plaisant, C., Navigation Patterns and usability of zoomable user interfaces with and without overviews, *ACM Transactions on Computer-Human Interaction*, 9 (4) 362-389 (2003)
- 19- Tanin, E., Lotem, A., Haddadin, I., Shneiderman, B., Plaisant, C., Slaughter, L., Facilitating Network Data Exploration with Query Previews: A Study of User Performance and Preference, *Behaviour & Information Technology*, 19 (6) 393-403 (2000)
- 18- Greene, S., Marchionini, G., Plaisant, C., Shneiderman, B., Previews and Overviews in Digital Libraries: Designing Surrogates to Support Visual Information-Seeking, *Journal of the American Society for Information Science*, 51 (3) 380-393 (2000).
- 17- Greene, S., Tanin, E., Plaisant, C., Shneiderman, B., Olsen, L., Major, G., Johns, S., The end of zero-hit queries: Query previews for NASA's Global Change Master Directory, *International Journal of Digital Libraries*, 2 (2+3), 79-90 (1999)
- 16- Plaisant, C., Shneiderman, B., Doan, K. and Bruns, T., Interface and data architecture for query preview in networked information systems, *ACM Transaction on Information Systems* (as Practice and Experience Paper), 17 (3), 320-341 (1999)
- 15- Plaisant, C., Shneiderman, B., Mushlin, R., An information architecture to support the visualization of personal histories, *Information Management and Processing*, 34 (5), 581-597 (1998)
- 14- Lindwarm D., Rose, A., Plaisant, C., Norman, K., Viewing personal history records: a comparison of tabular format and graphical presentation using LifeLines, *Behaviour and Information Technology* 17 (5), 249-262 (1998)
- 13- Marchionini, G., Plaisant, C., Komlodi, A., Interfaces and tools for the Library of Congress National Digital Library Program, *Information Processing & Management*, 34 (5)

535-555 (1998). Note: a shorter French version appeared in *Document Numérique*. 2(1), 1998, 53-65, Hermes, Paris. (1998)

12- Carr, D., Plaisant, C., Hasegawa, H., Usability experiments for the redesign of a telepathology workstation, *Interacting with Computers*, 11(1), 33-52 (1998)

11- Plaisant, C., Rose, A., Shneiderman, B., Vanniamparampil, A., Low effort, high payoff user interface reengineering, *IEEE Software*, 14 (4), 66-72 (1997). Note: this paper was also translated in Japanese in *Nikkei Computer* (1998)

10- Kumar, H. , Plaisant, C. and Shneiderman, B., Browsing hierarchical data with multi-level dynamic queries and pruning, *International Journal of Human-Computer Studies*, 46, 103-124 (1997)

9- Plaisant, C., Carr, D. and Shneiderman, B., Image Browsers: Taxonomy, Guidelines, and Informal Specifications, *IEEE Software*, 12(2), 21-32 (1995)

8- Shneiderman, B., Plaisant, C., Botafogo, R., Hopkins D. and Weiland, W., Designing to facilitate browsing: a look back at Hyperties workstation browser, *Hypermedia*, 3(2), 101-118 (1991)

7- Plaisant, C. and Shneiderman, B., Scheduling home control devices: Design issues and usability evaluation of four touchscreen interfaces, *Int. J. of Man-Machine Studies*, 36, 375-393. Academic Press, London. (1991)

6- Faloutsos, C., Lee, R., Shneiderman, B. and Plaisant, C., Incorporating string search in a hypertext system: User interface and signature file design issues, *Hypermedia*, 2(3) 183-200. Taylor-Graham, London. (1991)

5- Furuta, R., Plaisant, C. and Shneiderman, B., Automatically transforming regularly-structured linear documents into hypertext, *Electronic Publishing: Origination, Dissemination and Design*, 2(4), 211-229 (1990)

4- Furuta, R., Plaisant, C. and Shneiderman, B., A spectrum of automatic hypertext constructions, *Hypermedia*, 1(2) 179-195. Taylor-Graham, London (1989)

3- Shneiderman, B., Brethauer, D., Plaisant, C. and Potter, R., Evaluating three museum installations of an hypertext system, *Journal of the American Society for Information Science*. 40(3), 172-182 (1989)

2- Plaisant, C., and Naymark J., The computer and the pre-school child; the written language and play, *Comput. Educ.* 10(1), 167-174 (1986)

1- Barrière, M. and Plaisant, C., Quelques effets de l'expérimentation sur la réalisation et le développement de logiciels de sensibilisation à la langue écrite (The effect of experimentation on the design and development of reading readiness software), Special Issue: Informatique et enseignement des langues, *Les amis de Sèvres*, 122, 94-107 (1986)

Invited journal articles (6)

6- Kerren, A., Plaisant, C., Stasko, J., Introduction to the Special Issue on Information Visualization: State of the Field and New Research Directions, *Information Visualization Journal*, 10, 4 (2011)

5- Plaisant, C., Scholtz, J., Grinstein, G., Introduction to the Special Issue on Visual Analytics Evaluation, *IEEE Computer Graphics and Applications*, 29, 3 (2009) 16-17

4- Plaisant, C., North, C., Reflections on Human-Computer Interaction, Introduction to the Special Issue in Honor of Ben Shneiderman's 60th Birthday, *International Journal of Human-Computer Interaction*, -23, 3, (2007) 195-204

3- Plaisant, C., Grinstein, G., Scholtz, J., Whiting, M., Laskowski, S., O'Connell, T., Chien, L., Tat, A., Wright, W., Görg, C., Liu, Z., Parekh, N., Singhal, K., Stasko, J., Evaluating Visual Analytics: the 2007 Visual Analytics Science and Technology Symposium Contest, *IEEE Computer Graphics and Applications*, 28, 2, 12-21 (2008)

2- Shneiderman, B., Kang, H., Kules, B., Plaisant, C., Rose, A., Rucheir, R., Design: A photo history of SIGCHI, evolution of design from personal to public, *ACM interactions* May 2002, 9, 3, 17-23 (2002)

1- Doan, K., Plaisant, C., Shneiderman, B., Bruns, B., Query Previews for Networked Information Systems: A Case Study with NASA Environmental Data , *ACM SIGMOD Record*, 26 (1), 75-81 (March 1997)

Refereed Papers in Conference Proceedings (98)

98- Valdivia, P., Buono, P., Plaisant, C., Dufournaud, N., Fekete, J-D., Using Dynamic Hypergraphs to Reveal the Evolution of the Business Network of a 17th Century French Woman Merchant, *Proceeding of the Workshop on Visualization for the Digital Humanities* (2018) 1-5

97- Ledieu, T., Bouzille, G., Plaisant, C., Thiessard, F., Polard, E., Cuggia, M., Mining clinical big data for drug safety: Detecting inadequate treatment with a DNA sequence alignment algorithm, *Proc. American Medical Informatics Association annual symposium* (2018)

96- Plaisant, C., Visualization of temporal patterns in patient record data. *Fundamental & clinical pharmacology*, 32, 1 (2018) 85-87.

95- Molinero, VS., Bach, B., Plaisant, C., Dufournaud, N., Fekete, J-D., Understanding the Use of the Vistorian: Complementing Logs with Context Mini-Questionnaires, *Proc. of the Workshop on Visualization for the Digital Humanities* (2017) 1-5.

94- Du, F., Plaisant, C., Spring, N., Shneiderman, B., Finding Similar People to Guide Life Choices: Challenge, Design, and Evaluation, *Proc. ACM Conf. on Human Factors in Computing Systems* (2017) 5498-5544

** Received Best Paper Honorable Mention award

- 93- Plaisant, C., Shneiderman, B., The Diversity of Data and Tasks in Event Analytics. *Proc. of the Event Event, a IEEE Vis 2017 workshop* (2017) 1-4 (<https://eventevent.github.io/>)
- 92- Du, F., Plaisant, C., Spring, N., Shneiderman, B., EventAction: Visual Analytics for Temporal Event Sequence Recommendation, *Proc. of the IEEE Visual Analytics Science and Technology* (2016) 61-70
- 91- Chevalier, F., Riche, N.H., Plaisant, C., Chalbi, A. and Hurter, C., Animations 25 Years Later: New Roles and Opportunities. *Proc. of AVI 16, International Working Conference on Advanced Visual Interfaces* (2016) 280-287.
- 90- Mauriello, M. L., Shneiderman, B., Du, F., Malik, S., Plaisant, C., Simplifying Overviews of Temporal Event Sequences, *Extended Abstracts on Human Factors in Computing Systems, CHI '16* (2016) 2217-2224
 ** Received (Late Breaking Work) Best Paper Honorable Mention
- 89- Malik, S., Du, F., Monroe, M., Onukwugha, E., Plaisant, C., Shneiderman, B., Cohort Comparison of Event Sequences with Balanced Integration of Visual Analytics and Statistics, *Proc. of ACM Intelligent User Interfaces (IUI) 2015*, ACM (2015) 38-49
- 88- Sopan, A, Plaisant, A., , S., Shneiderman, B., User Interface Techniques to Reduce Wrong Patient Selection Error, *Proc. AMIA 2014 Annual Symposium* (2014) 1056-65
- 87- Carter, E., Burd, R., Monroe, M., Plaisant, C., Shneiderman, B. Using EventFlow to Analyze Task Performance During Trauma Resuscitation, *Proc. of the Workshop on Interactive Systems in Healthcare, WISH2013* (2013)
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Refereed video publications (8+)

All the ACM videos are archival videos available from ACM and widely used for teaching. Two-page abstracts of the CHI videos are also published by ACM (in the Conference Proceedings until 1994, and in the Adjunct Proceedings or "Companion" from 1994 and on). To avoid duplication, those abstracts do not appear in the above list of refereed papers.

Plaisant, C., Komlodi, A., Marchionini, G., Bringing treasures to the surface: Previews and overviews in a prototype for the Library of Congress National Digital Library, *CHI '98 Technical video program*, ACM, New York (1998).

Plaisant, C., Bruns, T., Shneiderman, B., Doan, K., Query Previews in Networked Information Systems: the Case of EOSDIS, *CHI' 97 Technical video program*, ACM, New York (1997).

Milash, B., Plaisant, C., Rose, A., Life-Lines: Visualizing Personal Histories - *CHI' 96 Technical video program*, ACM, New York (1996).

Plaisant, C., and Shneiderman, B., Organization overviews and role management: inspiration for future work environment, *CHI' 95 Technical video program*, ACM, New York (1995).

Plaisant, C., and Jain, V., Dynamaps: Dynamic queries on a health statistics atlas, (4 minutes), *SIGGRAPH Video Review*, issue 97 on the CHI' 94 Technical video program, ACM, New York (1994).

Plaisant, C., Carr, D., Hasegawa, H., Exploring remote images: a telepathology workstation, *SIGGRAPH Video Review* on the INTERCHI 93 Technical video program. ACM, New York (1993)

Plaisant, C. and Wallace, D., Touchscreen toggle design, 6 minutes video. *SIGGRAPH Video Review*, Issue 77 on CHI'92 Technical video program. ACM, New York (1992).

Plaisant, C., and Shneiderman, B., Scheduling home control devices, 6 minutes video. Presented at the Interact'90 and SIGCHI'91 conferences. *SIGGRAPH Video Review*, Issue 63-64 on the CHI'91 Technical video program. ACM, New York (1991)

Video Collection edited

HCIL Video Reports (1991-2002) - a total of about 100 demonstrations in about 10 hours of video. This yearly collection is published in June at the occasion of the HCIL Symposium.

TEACHING

- CMSC838b Information Visualization (co-taught with Ben Shneiderman) 2001
- Gemstone team mentoring (3 year undergraduate research program) 2001-2003
- Regular guest lectures in University of Maryland classes
 - CMSC 734 Information Visualization
 - CS434 Human Computer Interaction
- Other occasional guest lectures
 - LBSC 795 Principles of Human-Computer Communication
 - LBSC 790 Building the Human - Computer Interface
 - GEM 202: Team Dynamics and Research Methodology
 - ENRE 734 Human Reliability Analysis

Adjunct Member of the University of Maryland Graduate Faculty (1991 -)

Graduated PhD students

- Fan Du, (*regular supervision, committee member*) PhD Computer Science (2018)
- Sana Malik (*regular supervision, committee member*) PhD Computer Science (2016)

- Megan Monroe (*regular supervision, committee member*) PhD Computer Science (2013)
- John Alexis Guerra Gomez (*regular supervision, committee member*) PhD Computer Science (2012)
- Sureyya Tarkan (*regular supervision, committee member*) PhD Computer Science (2012)
- Krist Phongsuphasawat (*regular supervision, committee member*) PhD Computer Science (2012)
- Ben Smith (*committee member*) PhD Psychology (2012)
- David Wang (*regular supervision, committee member*) PhD Computer Science (2010)
- Haixia Zhao (*co-chair of committee*) PhD Computer Science (2006)
- Bill Kules (*committee member*) PhD Computer Science (2006)
- Bongshin Lee (*regular supervision, committee member*) PhD Computer Science (2006)
- Bongwon Suh (*committee member*) PhD Computer Science (2004)
- Anita Komlodi (*committee member*) PhD College of Information Studies (2002)
- Egemen Tanin (*regular supervision, committee member*) PhD Computer Science (2001)
- Brian Johnson (*Committee member*) PhD - Computer Science, (1993)
- Andy Sears (*Committee member*) PhD - Computer Science, (1993)

Graduated MS students (with thesis)

- Lyndsey Franklin, CS Master (*regular supervision and thesis committee member*)
- Gouthami Chintalapani (*regular supervision*) MS Systems Engineering (2003)
- Harsha Kumar (*regular supervision and committee member*) MS- Systems Engineering, (1994)
- Dave Turo (*Committee member*) MS - Computer Science (1993)
- Degi Young (*Committee member*) MS - Computer Science (1991)

Other recent student advised (2011-16)

- Hsueh-Chien Cheng, CS PhD candidate
- Awalyn Sopan, CS PhD candidate
- Rongjian Lan, CS PhD candidate
- Johnny Wu, CS Master
- Chris Musialek (CS Master)
- Christi Capati (undergrad)

Graduated UMD Gemstone team

- Baker, H., Duarte, N., Haririnia, A., Klimesmith, D., Lee, H., Velikovich, L., Wanga, A., Westhoff (*Gemstone mentor and thesis committee member*) (2001-2005)
- Team "Fanatic" (*Thesis committee member and discussant*) (Spring 2008)

Graduated from other Universities

- Romain Vuillemot (*committee member*), PhD Computer Science (2010) University of Lyon, France, Visited Spring and summer 2008
- Carman Neustaedter (*committee member*) PhD Computer Science (2007) University of Calgary, Canada
- Laurent Cailleateau (*committee member and supervision during internship*) Diplome d'Etudes Approfondies [MS+ level] Ecole des Mines de Nantes, France (1999)

Visiting PostDocs and PhD students supervised (recent)

- Manuel Freire, PostDoc (Universidad Autonoma de Madrid, Spain (2011)
- Romain Vuillemot, PhD student, Université of Lyon, France (2009)

- Anthony Don, Postdoc, Université de Bordeaux, France (2007)

Undergraduate Students Independent Studies

- Tiffany Chao, undergraduate CS Honor Project (2012)
- Stanley Lam, Undergraduate CS Honor project (2008)
- Celeste Paul, Undergraduate Independent Research (from U. of Baltimore) (Spring 2007)
- Darya Filippova, CS (2006-2007) - Independent Research project (2007)
- Adalberto Simeone, CS – visiting from U. of Bari, Italy – Graduation project (2006)
- Steve Betten (2003) – Honor project

NOTE: *Over the years I closely supervised many other postdocs, graduate and undergraduate students that do not appear here but participated in my research projects.*

Technical Tutorials

- Full Day Course: Event Analytics and the Visualization of Temporal Event Sequences <http://www.aviz.fr/DayCourse2017/EventAnalytics> (2017)
- Tutorial on Information Visualization for NLM Biomedical Informatics Course (2014)
- Tutorial on Information Visualization, JPSM (2004) (all day)
- Tutorial on Information Visualization, ACM conference on Human Factors in Computing Systems, CHI' 98, in Los Angeles, CA (all day)
- Tutorial on Information Visualization, ACM conference on Human Factors in Computing Systems, CHI' 2001, in Seattle, WA (all day)
- Tutorial on Information Visualization, Interface Homme-Machine, IHM' 98, in Nantes, France. (all day)
- Tutorial on Web Design, 1997, Maryland Library Association conference (half-day)
- Tutorial on Web Design, 1996, New York Library Association conference (half-day)
- Tutorial on User Interface Design - International conference on Cognitive and Computer Science in Organizations: ICO '93, Montreal, CA - May 1993. (half-day)
- Tutorial on Hypertext during the Advanced Computing for the Social Sciences Conference, Williamsburg Virginia, April 10-12, 1990. (half-day)

PRINCIPAL INVESTIGATOR OF CONTRACTS AND GRANTS

- Adobe Corporation (Co-PI, \$100,000) Event Analytics (2015-2017)
- Oracle Corporation (Co-PI, \$435,000) Information Visualization (2011-2015)
- Maryland Industrial Partnerships with Pulse8 (PI, \$100,000) Visualization of Health Data to Improve Outcomes (2013-2014)
- Office of National Coordinator of Health Information Technology (Sub. of University of Texas – Houston) (Co-PI, \$960,000). Cognitive Information Design and Visualization for the National Center for Cognitive Informatics and Decision Making in Healthcare (2010-2014)
- NIH-National Cancer Institute (Co-PI, \$682,220) Interactive Exploration of Temporal Patterns in Electronic Health Records (2009-2012)
- National Science Foundation (PI, \$150,000) Collaborative Research: User-Centered Visual Analytics Evaluation (2009-2012)
- NSF (Co-PI, \$249,926) Supporting a Nation of Neighbors with Community Analysis Visualization Environments (2010-2012)

- Westat Corporation (Co-PI, \$82,494) Information Design and Usability Toolkit (2010-2011)
- Battelle-Pacific Northwest National Laboratory (PI, \$25,000) Health and Pandemic Data Analysis Evaluation (2010)
- NIH-National Cancer Institute (Co-PI, \$337,534) Interactive Exploration of Temporal Patterns in Electronic Health Records (2009-2012)
- U S Department of Transportation -Tier 1 University Transportation Center (PI, \$60,000) Visualization (2009-2011)
- Lockheed Martin (Co-PI, 100K + 50K) User Interface Research (2009 -2010)
- National Science Foundation (PI, \$25,000) IIS0925482 Collaborative Research: Visual Analytics Science and Technology 2009 Challenge Workshop (2009)
- Washington Hospital Center (CoPI - \$250,000) Discovering Patterns of Events in Medical Patient Records (2008-2010)
- National Cancer Institute / IDox (CoPI - \$100,000) Evaluating cooperation among NCI partners (2008)
- National Science Foundation (PI- \$151,000 portion of \$450,000 Collaborative Research Grant with University of Massachusetts at Lowell and PNNL) Scientific Evaluation Methods for Visual Analytics (2007-2009)
- Mellon Foundation (CoPI - \$160,970 portion of \$1,000,000 grant, PI John Unsworth, U. of Illinois) Metadata Offer New Knowledge (2007-2008)
- Washington Hospital Center (CoPI - \$100,000) Discovering Patterns of Events in Medical Patient Records (2007)
- National Institute of Standards and Technology (PI - \$20,000) Visual Analytics Evaluation (2008)
- National Institute of Standards and Technology (PI - \$25,000) Visual Analytics Evaluation (2007)
- National Institute of Standards and Technology (PI - \$25,000) Visual Analytics Evaluation (2006)
- ARDA/Booz Allen Hamilton (CoPI - \$324,980) Human-Information Interaction Research (2004-2006)
- NSF (\$558,074) Toward the National Statistical Knowledge Network (2002-2006)
- National Center for Health Statistics (CoPI - \$50,000) Advanced User Interfaces (2003-2004)
- ChevronTexaco (CoPI - \$390,000) 11/15/2000 - 7/31/2003, Information Visualization
- MIPS and AnthroTronix (CoPI - \$120,000) 2000 - 2002, Therapeutic Play with a storytelling robot
- Maryland State Highway Administration (CoPI - \$95,000) 1998-1999, Interfaces for advanced transportation systems
- U. S. Bureau of the Census (CoPI - \$100,000), 2000-2001. Advanced User Interfaces
- U. S. Bureau of the Census (CoPI - \$100,000), 1999-2000. Advanced User Interfaces
- U. S. Bureau of the Census (CoPI - \$100,000), 1998-1999. Advanced User Interfaces
- U. S. Bureau of the Census (CoPI - \$30,000), 1998-1998. User interface training and evaluation
- NASA - Goddard (CoPI - \$145,000, NAG57126), Dynamic Queries Interfaces for the EOSDIS Information System, 3/1/98 - 12/31/99.
- NASA - Goddard (CoPI - \$163,240, NAG52895), 3/1/97 - 2/28/98, Dynamic Queries Interfaces for the EOSDIS Information System.
- Maryland Department of Juvenile Services, "User interfaces for the new Youth Services Information Systems" (CoPI - \$500,000: 8-95/ 12-96).

- Library of Congress, User Interfaces for the National Digital Library, (\$275,000: 8-95/2-97)
- NASA Goddard (CoPI - \$260,000: 3-95/2-97) User Interfaces for the Earth Observing System (EOSDIS)
- General Electric Information Systems and Maryland Industrial Partnership Program, "Improving Usability in Information Services" (CoPI - \$108,000: 2-95/2-96).
- National Library of Medicine, "User interface for the Visible Human Project (CoPI - \$25,000: 10-94/ 6:95)
- Maryland Department of Juvenile Services, "Information systems User interfaces" (CoPI - \$270,000: 7-94/ 6-95).
- IBM, "Video on demand user Interfaces" (CoPI - \$29,000: 12-93/ 4-94).
- The World Bank: User Interface of the Future, (CoPI - \$25,000 : 9-93/1-94)
- Hughes Network Management with Maryland Industrial Partnerships: "Advanced network management" (CoPI - \$280,000: 3-93/2-95)
- National Center for Health Statistics: dynamic queries for national health data, CoPI - \$35,000 (7/92-6/93)
- Maryland Industrial Partnerships with Corabi International Telemetrics Inc., Human Factors and User interface Design for Medical Imaging Workstation, (CoPI - \$55,000: 2/1/92 - 1/31/93), (\$55,000: 2/1/91 - 1/31/92), (CoPI - \$41,000: 2/1/90 - 1/31/91).
- National Cash Register Corporation: Continuation of previous work on Hypertext environments and touchscreen applications, (CoPI - \$75,000: 1/1/90 - 12/31/90).
- National Cash Register Corporation: Extensions to Hyperties, (CoPI - \$50,000: 1989).
- Maryland Industrial Partnerships with Custom Command Systems Inc.: User interfaces for home applications, (CoPI - \$53,000: 2/1/90 - 1/31/91, \$50,000: 7/1/88 - 12/31/88).

PATENT AND LICENSES

- Patent 6,895,305 B2 May 17, 2005 (filed February 2001), titled Robotic Apparatus and Wireless Communication System. Inventors: Lathan, C., Travey, M., Vice, J., Druin, A, Plaisant C. (this patent is related to the "storytelling robot for therapeutic play" research)
- Software licensed to industry via the University of Maryland Office of Technology Commercialization: Coco (2015), LifeFlow (2014), SpaceTree (2003), Treemap (2002), Robots for therapeutic play (2000), Excentric labels (1998), LifeLines(1997)
- Series of educational software packages "Paysage A,B,C" and "Composition". Edited for the Thomson TO7 and commercialized by Editions Jériko, 104 ter Bd Voltaire, 75011 Paris (Collection Centre Mondial Informatique) (1987)

PROFESSIONAL TALKS (SAMPLE)

- Invited Speaker - SIGCHI-Paris Seminar, July 6, 2017
- Invited speaker - Le SNIIRAM pour la Recherche en Santé, Rennes, June 27, 2017
- Invited Speaker at INRIA Lille, June 19, 2017
- **Keynote speaker** at *Journées Visu* (Paris, 2017)
- Invited Speaker - 2016 Summer Institute in Nursing Informatics (July 2016)
- Invited Speaker - VIZBI'2015 Visualizing Biological conference (Oct. 2015)
- Invited speaker - New York University (March 2015)
- **Keynote** - IE Lab Conference, University of Missouri (Nov. 2013)
- **Keynote** – North East Assoc. for Institutional Research Conf., Bethesda MD (Nov. 2012)
- **Distinguished Lecture** – University of Utah (Sept. 2012)

- **Keynote** Diagrams 2012 – University of Kent, UK (July 2012)
- **AMIA invited speaker, Consortium on Medical Informatics** (ACMI) (Feb 2012)
- AMIA webinar on visualization of temporal health record data. Virtual NLP Journal Club on Temporal Reasoning (Dec 5, 2012)
- Panelist in “Research with impact” a panel of Visual Analytics Community VAC2011 Meeting, College Park (May 3, 2011)
- Vanderbilt University School of Medicine (April 5, 2011)
- Keynote for Graphics Interface 2010 Conference, Ottawa CA (May 2010)
- University of Massachusetts at Lowell - Computer Science Dept. (Spring 2008)
- University of Bari, Italy - Computer Science Dept. (Spring 2008)
- Conference of Maryland chapter of Special Library Association (Fall 2007)
- Harvard Medical School (Spring 2007)
- University of Calgary – Dept. of Computer Science (Spring 2007)
- Brown University – English Department (Fall 2006)
- INRIA Paris – AVIZ group (Summer 2006)
- **Keynote** for Distributed Multimedia Systems Conference, DMS’06
- Booz Allen Hamilton, Speaker series (2005)
- **Keynote** for Advanced Visual Interfaces AVI 2004
- and many other venues such as U.S. Bureau of Census, Software Psychology Society, Conference on User Interface for Complex Systems, Conf. on Computer and the Future of Society, IBM Watson Research Center, NY., NYNEX Science & Technology, John Hopkins University, Virginia Polytechnic Institute and State University, Museum Computer Network annual conference, ChevronTexaco Technology Conference.

SERVICE

Journal Editing

- Member of the Editorial Board of the Information Visualization Journal, Sage Publishing (2001-)
- Member of the Computer Science Special Editorial Board of Interacting with Computers, Butterworth-Heinemann Ltd, Oxford (1992- 2010)
- Guest editor for the Information Visualization Journal special issue on “Information Visualization: State of the Field and New Research Directions”, 10(4), 2011 (with Andreas Kerren and John Stasko)
- Guest editor for IEEE Computer Graphics and Applications, special issue on Visual Analytics Evaluation (2009)
- Guest editor for International Journal of Human-Computer Interaction (Special issue in honor of Ben Shneiderman) (2007) and for IEEE Computer Graphics & Applications (a special issue on the evaluation of visual analytics) (2009).

Journal Reviewing

- Journal of the American Medical Association (JAMIA) (2010-)
- IEEE Transactions on Visualization and Computer Graphics (TVCG) (2000-)
- ACM Transactions on Computer Human Interaction TOCHI (1994-)
- International Journal of Man-Machine Studies (1990-),
- Behaviour and Information technology (1997-),
- International Journal of Human-Computer Studies (1996-),

- Communications of the ACM (1995-),
- IEEE Software (1995- 1997)
- IBM Systems Journal (1999-)
- Document Numérique (1999, 2006)
- and many others on single occasions

Conference Reviewing

Regular reviewing:

- AMIA (2009-)
- IEEE Vis (2002-)
- ACM Conference on Human Factors in Computer Systems (CHI) (1990 -)
- International Working Conference on Advanced Visual Interfaces (AVI) (2006-)
- IEEE VAST Challenge (2006 -)

Occasional reviewing

- Interact
- EUROVIS
- ACM User Interface Software Technology (UIST)
- Interaction Homme Machine IHM (1997- 2003) France
- Graphical Interface (GI) Canada,
- International Conference on Audio Displays (ICAD)
- SIGGRAPH, Hypertext, W3C, Mobile Government 2005, Graph Drawing'05

Other reviewing (sample)

- Expert Project Reviewer at FORUM 2011 Microsoft research / INRIA Joint Centre - FORUM 2011 (2011)
- National Science Foundation - CISE Proposal Review Panel (2005-)
- Academy of Finland -European Young Investigator award – EURY (2007)
- Fondation Canadienne pour l’Innovation (Fonds des Leaders) (2006-2014)
- National Academy (review of GeoVisualization report) (2003)
- Project proposal reviews for INRIA (1999)

Workshops and Special Events Organized

- Co-chair of Visualization of Electronic Health Record -Workshop at the IEEE Vis Conference (2014)
- Co-chair of Electronic Health Record Informatics -Workshop at the HCIL Symposium (2011-2014)
- Co-Chair of the Beliv08 workshop: BEyond time and errors: novel evaluation methods for Information Visualization, in conjunction with CHI 2008, Florence (peer reviewed proceeding published by ACM) with Guisepppe Santicci, Enrico Bertini and Adam Perer.
- Co-Chair of InfoVis 2007 workshop on Metrics for Evaluation (45 attendees) with Jean Scholtz and Georges Grinstein
- Co-Chair of the Beliv06 workshop: BEyond time and errors: novel evaluation methods for Information Visualization, in conjunction with AVI 2006, Venice (about 40 attendees, peer reviewed proceeding published by ACM)
- Co-Chair for the 1st and 2nd Contest of the Visual Analytics Science and Technology Conference (VAST 2006 and VAST 2007) with Jean Scholtz and Georges Grinstein
- Co-Chair for the 1st and 2nd Contest of the Information Visualization Conference (InfoVis 2003 and 2004) with Jean-Daniel Fekete and Georges Grinstein

- Co-chair of Workshop on Information Visualization Evaluation, in conjunction with the HCIL symposium (June 2003), with Anita Komlodi
- Co-chair of Workshop on Technologies for Families, in conjunction with the HCIL symposium (June 2001), with Allison Druin
- Co-chair of Workshop on Design and Implementation of Query Previews for Digital Libraries, in conjunction with the HCIL symposium (June 1999), with Maya Ventkatraman
- Co-chair of Workshop on Visualizing Personal Histories: (July 1997) with Ben Shneiderman

Scholarly Conference Program Committee:

- Workshop Chair and Member of the program committee of the International Conference on Advanced Visual Interfaces conference (AVI) 2008, Napoli
- Member of the program committee and Contest co-chair IEEE VAST 2006 and 2007
- Member of the program committee of the International Conference on Advanced Visual Interfaces conference (AVI) 2006, Venice
- Member of the program committee of the International Conference on Information Visualization (IV'05, London) 2005
- Member of the program committee of the First European Conference on Mobile Government (EURO mGov) 2005
- Member of the program committee and Contest co-chair IEEE Infovis 2003 and 2004
- Member of the program committee of the IEEE WETICE 2001 workshop on Evaluating Collaborative Enterprises
- Member of the Program Committee, IHM'98, French conference on Human-Computer Interaction (Nantes, France, September 1998).
- Video Chair of the ACM CHI'96 Conference (Vancouver, May 1996)
- Publication Chair and Conference Companion Editor of the ACM CHI'94 Conference (Boston, May 1994)
- Member of the Technical Papers Committee, ACM CHI'92 Conference, INTERCHI'93.
- Member of the Program Committee, Human Jobs and Computer Interfaces, IFIP WG 9.1 (Computers and Work). Tampere, Finland (June 26-28 1991).
- Member of the Program Committee, Twenty-Ninth Annual Technical Symposium of the Washington, D.C. Chapter of the ACM. Gaithersburg, Maryland (June 20, 1991).

University and Community Services (partial list)

- Member of the Dean search Committee for the U. of Md. College of Computer, Mathematical, and Natural Sciences (2017)
- Member of review committee for UMIACS Director 5-year re-appointment (2015)
- Member of internal review committee for UMIACS review (2015)
- Member of search committee for Technology Manager of UMD Office of Technology Commercialization (Fall 2005).
- Science Fair Judge at Eleanor Roosevelt High School, Greenbelt (2000-2007)
- Science Fair Judge at Goddard French Immersion school, Greenbelt (2002-2006)
- Occasional expert reviews for the University of Maryland Technology Advancement Program: selection of companies for the incubator program (1995-2004)
- Presentation/Interview about women in science with a group of 23 Middle School girls from Olney, MD. (1999)
- Lab tours and discussion for the ISR Young Scholar program (2 days in 1999)

- Co-supervision with Peter Teuben in Astronomy of Rotimi Osunsan, undergraduate from U of M Eastern Shore (summer research program for undergrads). (1999)
- Research Scientists' Representative for the College of Computer Mathematical and Physical Sciences Council (1993)
- Greenbelt National Park – Trail maintenance volunteer (2004-)

Consulting for industry and government (sample)

Harvard Medical School / Partners Healthcare, Robert Wood Johnson Foundation, National Archives, ROW Inc., European South Observatory, National Institute of Health, National Center for Health Statistics, Prometheus Light and Sound, Software Productivity Consortium, National Library of Medicine, SWIFT Inc. (Society for Worldwide Interbank Financial Telecommunication), TRW, CityBank, Iaccoca Institute - Lehigh Univ.