Curriculum Vitae
Diane Pozefsky

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Department of Computer Science   2100 Tadley Drive
Campus Box 3175, Brooks Building   Chapel Hill, NC 27514
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Education:
Ph.D., Department of Computer Science, University of North Carolina at Chapel Hill, Dissertation: "Building Efficient Pass-Oriented Attribute Grammar Evaluators", April 1979.
A.B., Applied Mathematics, Brown University, Providence, RI, June 1972.

Work Experience:
UNC-Chapel Hill June 2009 – June 2019
    Research Professor, Department of Computer Science
        Recognitions and Awards
            3 undergraduate teaching awards
            1 graduate teaching award
            Carolina Entrepreneurial Initiative Course Development Grant 2011
            Inducted to the Women in Technology International Hall of Fame 2011
        University Service
            Summer Reading Selection Committee 2008-2010
            First Year Seminar Committee 2007-2009
        Director of Undergraduate Studies July 2014 – June 2019
UNC-Chapel Hill July 2006 – June 2009
    Adjunct Professor, Department of Computer Science
        Recognitions and Awards
            2006 IBM Faculty Award
            Carolina Entrepreneurial Initiative Course Development Grant 2006
UNC-Chapel Hill July 2004 – June 2006
    Research Professor, Department of Computer Science
    Scientist, Renaissance Computing Institute
IBM June 1979 – June 2004
    Assignments
        Faculty loan at UNC   Mar 2003 – June 2004
        Lotus client architecture   Mar 2002 – Mar 2003
        Director, storage networking architecture   Aug 2000 – Mar 2002
        CIO Office   Aug 1998 – Aug 2000
        Nagano and Sydney Olympics   Feb 1997– Aug 1998
        Chief architect and development lead for AnyNet   1989 – 1997
        SNA Architecture, incl lead architect for APPN   1979 – 1989
    Other activities
        lead calendar awareness services project
        founded corporate and NC Women in Technology conferences
        perennial chair of local Engineers Week (e-week) effort and founder and cochair of
            NC Coalition for e-week
    Recognitions
        8 Formal Achievement Awards
        Named Master Inventor in 1996
        Named IBM Fellow in 1994
        Elected to the IBM Academy of Technology 1990
            Elected to two terms on governing council

Published papers:

"A Novel Approach to Diabetes Education for Adolescent Pediatric Patients and Parents" with Michelle Curl and Nina Jain to be presented at American Diabetes Association AScientific Sessions San Francisco, CA June 2019.

"Multi-Descriptor Read Across (MuDRA): a simple and transparent approach for developing accurate QSAR models" with Alves et al in Journal of Chemical Information and Modeling; doi: 10.1021/acs.jcim.8b00124.

"Chemotext: A Publicly Available Web Server for Mining Drug-Target-Disease Relationships in PubMedl" with Capuzzi et al in Journal of Chemical Information and Modeling, February 2018.

"Chembench: A Publicly Accessible, Integrated Cheminformatics Portal" with Capuzzi et al in Journal of Chemical Information and Modeling, January 2017.

"Chembench: a cheminformatics workbench" with Walker et al in Bioinformatics, 2010; doi: 10.1093/bioinformatics/btq556.

"iFold: a platform for interactive folding simulations of proteins" with Sharma et al in Bioinformatics 22(21): 2693-2694, 2006.

"Storage Networking: More than an SNA Anagram" in *NCP and 3745/46 Today*, Summer 2001.

"MPTN Transport Gateway", with D. Ogle in SNA and TCP/IP Enterprise Networking, Manning Publications Co, 1997.

"Multiprotocol Transport Networking: Eliminating Application Dependencies on Communications Protocols" with R. Turner et al, IBM Systems Journal volume 34 issue 3, pp. 472-500, July 1995.

"Multiprotocol Transport Networking: A General Internetworking Solution" with K. Britton et al, Proceedings of 1993 International Conference on Network Protocols, pp. 14-26, IEEE Computer Society Press, October 1993.

"SNA's Design for Networking" with D. Pitt and J. Gray, IEEE Network volume 6 number 6, pp. 16-31, November 1992.

"LAN-PBX Gateway Alternatives" with J. Gray and D. Pitt, Proceedings of the IFIP TC 6/WG 6.4 International In-Depth Symposium on Local Communications Systems: LAN and PBX, pp. 143-156, Elsevier Science Publishers, 1987.

"SNA Networks of Small Systems" with Baratz et al, Selected Areas in Communications volume SAC-3 Number 3, pp. 416-426, May 1985.

"A Meta-Implementation for Systems Network Architecture," with F. D. Smith, IEEE Transactions on Communications, COM-30(6) pp. 1348-1355, June 1982.

"Space-Efficient Storage Management in an Attribute Grammar Evaluator", with M. Jazayeri, ACM Transactions on Programming Languages and Systems volume 3 issue 4, pp. 388-404, October 1981.

"The SNA Meta-Implementation: Language and Applications," with F. D. Smith, ICC '81 International Conference on Communications, 9.2.1-9.2.5, June 1981.

"A Space Improvement in the Alternating Semantic Evaluator", with M. Jazayeri, Proceedings of the ACM 1980 Annual Conference, pp. 498-504, January 1980.

"A Family of Pass-Oriented Attribute Grammar Evaluators", with M. Jazayeri, Proceedings of the ACM 1978 Annual Conference, pp. 261-270, December 1978.

"Efficient Multipass Evaluation of Attribute Grammars Without a Parse Tree," Proceedings 1977 Conference Information Sciences and Systems, John Hopkins University, pp. 184-89, March 30-April 1, 1977.

"Systems Programming Languages" with Bergeron et al (as Shecter) in Advances in Computers 12, pp. 175-284, 1972.

US Patents:
8,494,890 and 8,452,631 "Keeping working hours and calendar entries up-to-date" with Doss et al, issued July 23, 2013

7,487,234 and 7,617,308 "Context conflict resolution and automatic context source maintenance" with Doss et al, February 3, 2009

7,752,066, 7,747,459 and 7,395,221 "Intelligent free-time search" with Doss et al, issued July 1, 2008

7,318,040 "Predicting and adjusting users' working hours and electronic calendar events" with Doss et al, issued January 8, 2008

7,284,002 "Calendar-enhanced awareness for instant messaging systems and electronic status boards" with Doss et al, issued October 16, 2007

7,191,298 "Flexible system and method for mirroring data" with Kaminsky et al, issued March 13, 2007

7,096,232 "Calendar-enhanced directory searches including dynamic contact information" with Doss et al, issued August 22, 2006

7,035,865 "Calendar-enhanced awareness for instant messaging systems and electronic status boards" with Doss et al, issued April 25, 2006

6,988,128 "Calendar events and calendar-driven application technique" with Alexander et al, issued January 17, 2006

6,731,323 "Media-enhanced greetings and/or responses in communication systems" with Doss et al. issued May 4, 2004

6,654,790 "Technique for enabling wireless message systems to use alternative message delivery mechanisms" with Ogle et al, issued November 25, 2003

6,430,604 "Technique for Enabling Messaging Systems to Use Alternative Message Delivery Mechanisms" with Ogle et al, issued August 6, 2002

5,802,053 "Transport Gateway Between a Native Network and a Mixed Network" with Bollella et al, issued September 1, 1998

5,491, 693 "General Transport Layer Gateway for Heterogeneous Networks" with Britton et al, issued February 13, 1996

5,425,028 "Protocol Selection and Address Resolution for Programs Running in Heterogeneous Networks" with Britton et al, issued June 13, 1995

5,361,256 "Inter-Domain Multicast Routing" with Doeringer et al, issued November 1, 1994

5,224,098 "Compensation for Mismatched Transport Protocols in a Data Communications Network" with Bird et al, issued June 29, 1993

5,109,483 "Node Initiating XID Exchanges Over an Activated Link Including an Exchange of Sets of Binding Signals Between Nodes for Establishing Sessions" with Baratz et al, issued April 28, 1992

5,101,348 "Method of Reducing the Amount of Information Included in Topology Update Messages in a Data Communications Network" with Arrowood et al, issued March 31, 1992

4,967,345 "Method of Selecting Least Weight Routes in a Communications Network" with Clarke et al, issued October 30, 1990

4,954,821 "Method of Establishing Transmission Group Numbers for Network Links" with Gray et al, issued September 4, 1990

4,914,571 "Locating Resources in Computer Networks" with Baratz et al, issued April 3, 1990

4,873,517 "Method for Selecting Least Weight End Node to Ned Node Route in a Data Communications Network" with Baratz et al, Issued October 10, 1989

4,827,411 "Method of maintaining a Topology database" with Arrowood et al, issued May 2, 1989

4,736,369 "Adaptive Session Pacing" with Barzilai et al, issued April 5, 1988