

FUNDING (1989-mid 2008)

Period	Amount	Source	Title	PI's
1989-1995	437,670	NASA	Multiversion Software Reliability Through Fault Avoidance and Fault Tolerance	Vouk, McAllister, Tai
1990-1993	16,200	BNR	Software Reliability Modeling	Vouk
1990-1993	87,000	BNR	Software Risk Management	Vouk, Elmaghraby
1991-1993	192,000	Alcatel	Development of an Integrated System for the Management of Software Engineering Process	Vouk, Elmaghraby
1992	25,000	BNR	Software Reliability Modeling	Vouk
1993	25,000	EPA/ MCNC	Engineering of Large Software-Based Systems	Vouk
1993	75,000	IBM	IBM Infrastructure grant (Multimedia Lab)	Vouk
1993-1995	93,198	EPA/ MCNC	Engr. of High-Performance Environ. Decision Support Software	Vouk
1994	25,000	IBM	M-Wave adapters	Vouk
1994	856,000	IBM	SUR Award	
1994	30,000	EDI Inc.	STP/OMT Package	Cleveland, Vouk
1994-1995	50,000	IBM	Software Reliability	Vouk, Tai
1994-1996	239,275	EPA/ MCNC	Engineering of Large Software-Based Scientific Systems	Vouk
1994-1995	47,145	MCNC	Environmental Decision Support System	Vouk
1994-1995	34,730	IBM	Software Process and Performance	Vouk
1994-1998	824,040	NSF	Regional Training Center for Parallel Processing	Bitzer, Vouk
1995	50,065	IBM	Performance and Modeling of High-Speed Ethernets	Perros, Nilsson, Vouk
1995-1996	665,464	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk and Kneifel
1995-1997	30,000	IBM	Fellowship for a Graduate Student	Vouk
1995-1997	63,550	NCSU/ CACC	Software Process Toolset	Vouk
1995-1996	37,083	NSF	Analysis and Verification of Concurrent Systems	Iyer, Cleveland, Tai, Vouk
1995-1998	82,500	NASA	Dependability Eval. of large Systems (student fellowship)	Vouk
1996-1997	26,000	BNR/Nortel	Software Reliability Modeling	Vouk
1996-1997	450,000	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk

1995-1997	77,578	NCSU/CACC	Performance Study of Messaging in CORBA	Perros, Vouk
1996-1997	30,000	IBM	Software Process and Performance	Vouk
1997-1998	90,000	IBM	Software Testing Methodology and Performance	Vouk, Tai
1997-1998	15,000	IBM	An Assessment of Aggregate Route-Based IP Switching Design and Development of an ARIS Test-Bed	Vouk
1997-1998	433,000	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
1997-2002	800,488	NSF	Experimental Performance of Computing and Communications Systems – Infrastructure Grant	Franzon, Conte, Vouk (initial co-PI, not associated with the project anymore), Viniotis, Liu
1998	11,684	CACC	Performance of IP Solutions	Vouk
1998-2000	30,000	IBM	Fellowship for a graduate student	Vouk
1998-1999	735,849	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
1998-2001	772,120	NSF	Girls on Track	Berenson, Robinson, Vouk
1998-1999	26,447	CACC	Assessment and Management of User-Level Qos	Vouk
1998-1999	26,237	CACC	A Protocol for Description of End-User QoS	Vouk
2000-2001	20,000	IBM	Fellowship for a graduate student	Vouk
1999-2000	20,000	NCNI	NCNI Graduate Student Fellowship	Vouk, Mackenzie
1999-2000	523,094	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
1999-2000	66,000	BellSouth	Software Implementation of DiffServ Capable Routers	Vouk, Viniotis
1999-2000	59,836	CACC	Multivendor testbed for evaluation of differentiated services	Vouk, Viniotis
1999-2000	63,264	BellSouth	Policy Server for differentiated services	Vouk, Viniotis
1999-2000	75,000	BellSouth	Internet2 Research	Vouk
1999-2004	343,950	NSF	NSF membership in CACC	Kekas, Vouk, Snyder
2000-2001	\$120,000	Alcatel	An Experimental Investigation of End-to-End Quality of Service via Virtual Internet-2 Laboratory	Vouk, Streck

2000-2001	\$477,197	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2000-2001	\$55,000	BellSouth	Software Implementation of DiffServ Capable Routers	Vouk, Viniotis
2000-2001	43,000	CACC	Pro-Active Management of Security	Vouk, Trivedi
2000-2001	43,000	CACC	Satisfaction of Service Level Agreements	Vouk, Viniotis
2000-2001	49,000	CACC	Performance Testing of Routers Implementing IP Version 6	Vouk, Bass
2000-2001	\$30,000	IBM	Linux Based Software Rejuvenation	Vouk
2001/2	\$250,000	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2001-2002	\$43,000	CACC	Pro-Active Management of Security	Vouk, Trivedi
2001-2002	\$43,000	CACC	Satisfaction of Service Level Agreements	Vouk, Viniotis
2001-2002	\$20,000	IBM	Student Fellowship	Vouk
2001-2002	\$22,000	NCNI	Student Fellowship	Vouk
2001-2003	\$365,000	DOE	“Scientific Data Management Enabling Technology Center”, \$12,022,000 over 3 years (NC State share is about \$500,000 over 3 years), a multi-site proposal funded by the Department of Energy , PI-s: Arie Shoshani, LBNL, Bill Gropp ANL, Ekow Otoo LBNL, Terence Critchlow LLNL, Randy Burris ORNL, Ling Liu and Calton Pu, Georgia Institute of Technology, Mladen Vouk North Carolina State University, Alok Choudhary and Wei-Keng Liao, Northwestern University, Amarnath Gupta and Reagan Moore, UC San Diego (Supercomputer Center), - shown on the left is funding for NC State for Phase – I.	Vouk
2002-2003	\$22,000	NCNI	Student Fellowship	Vouk
2002-2003	\$40,000	IBM	Faculty Development	Vouk
2002-2003	\$36,000	CACC	Context-based Services	Vouk, Singh
2002-2003	\$81,000	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2002-2005	500,027	NSF	Women and Information Technology: A Comparative Study of Young Women from Middle Grades through High School, and into College	Vouk, Mladen A., Berenson, Sarah B., Michael, Joan
2002-2003	50,000	NSF	Analysis and Testing of Concurrent Object-Oriented Software	Tai, Vouk (Vouk PI since Summer 2002)
2003-2004	\$53,000	NSF	Extending Extreme Programming , NSF Partnership in CACC - NSA	Williams, Vouk
2003-2004	\$370,000	Cisco	Security Assessment of Cisco mIOS	Vouk
2003-2004	\$42,894	CACC	Agile Quality Assurance: Agile Practices or Best Practices?	Williams, Vouk

2003-2004	\$250,000	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2003-2006	\$687,859	NSF	ITWF: Collaboration through Agile Software Development Practices: A Means for Improvement in Quality and Retention of IT Workers	Williams, Vouk, Mladen. Berenson, Alexander
2003-2006	\$50,000	Protean Devices	Protean Devices Membership in CACC	Kekas, Vouk
2003-2004	\$182,327	DoE	Scientific Data Management Center	Vouk
2003-2004	\$24,515	Nortel Networks	Agile Software Dependability	Laurie Williams and Mladen Vouk
2003-2006	\$150,000	Cisco	Membership in CACC	Kekas, Vouk
2003-2006	\$150,000	Tekelec	Membership in CACC	Kekas, Vouk
2003-2006	\$60,000	Ericsson, Inc.	Membership in CACC	Kekas, Vouk
2004	15,354	Nortel Networks	Incorporating Automated Inspection into the Emerald Decision Support System	Williams, Vouk
2004-2005	35,000	IBM	Faculty Development	Vouk
2004	166,455	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2005	250,000	IBM (FI)	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2004-2006	368,000	DoE	Scientific Data Management Center	Vouk
2004-2005	95,700	NSF	NSA via CACC	Williams, Vouk
2005-2006	6,000	NSF	ITWF-REU	Williams, Vouk, Osborne, Berenson
2005-2006	4,790	NSF	NSA via CACC, REU	Williams, Vouk
2005	15,453	UNCH-CH	Student Fellowship	Vouk
2006	121,939	IBM	SUR: High-Speed Communications and Networking Support for Large Scale Distributed Software-Based Systems and Computer Based Education	Vouk
2005-06	79,042	UNC-CH	Research interactions with RENCi	Vouk
2005-2009	285,698	NSF	BPC-A: The STARS Alliance: A Southeastern Partnership for Diverse Participation in Computing	Williams, Berenson, Vouk
2005	118,726	NSF	ITWF: Collaboration Through Agile Software Development Practices: A Means for Improvement in Quality & Retention of IT Worker Supplemental Funding	Williams, Laurie Vouk, Mladen Osborne, Jason Alexander, Winser Berenson, Sarah
2006	200,000	RENCi	RENCi engagement facility development (funds and equipment)	Rhyne, Vouk

2006-2009	511,512	NSF	Markers of STEM Success (MOSS): An Eleven-Year Longitudinal Study of High Achieving Young Women's Interests, Experiences, and Preparation for STEM Careers	Berenson, Vouk, Michael, Woodard, Bracken
2006-2011	885,000	DOE	Scientific Data Management Center for Enabling Technologies	Vouk
2007	251,258	IBM	IBM SUR Grant	Vouk, Sills
2007	1,179,503	IBM	IBM SUR Grant - VCL	Vouk, Sills
2007	2,341,357	Intel	Intel VCL Donation	Averitt, Vouk, Britt
2008-2013	2,247,000	ARO	Secure Open Systems Initiative	Kekas, Vouk, Ning, Dutta, Bass
2008	631,000	NC	NCCC Support	Sills, Peeler, Vouk, Schaffer, Stein
Total	\$22,800,073.00			

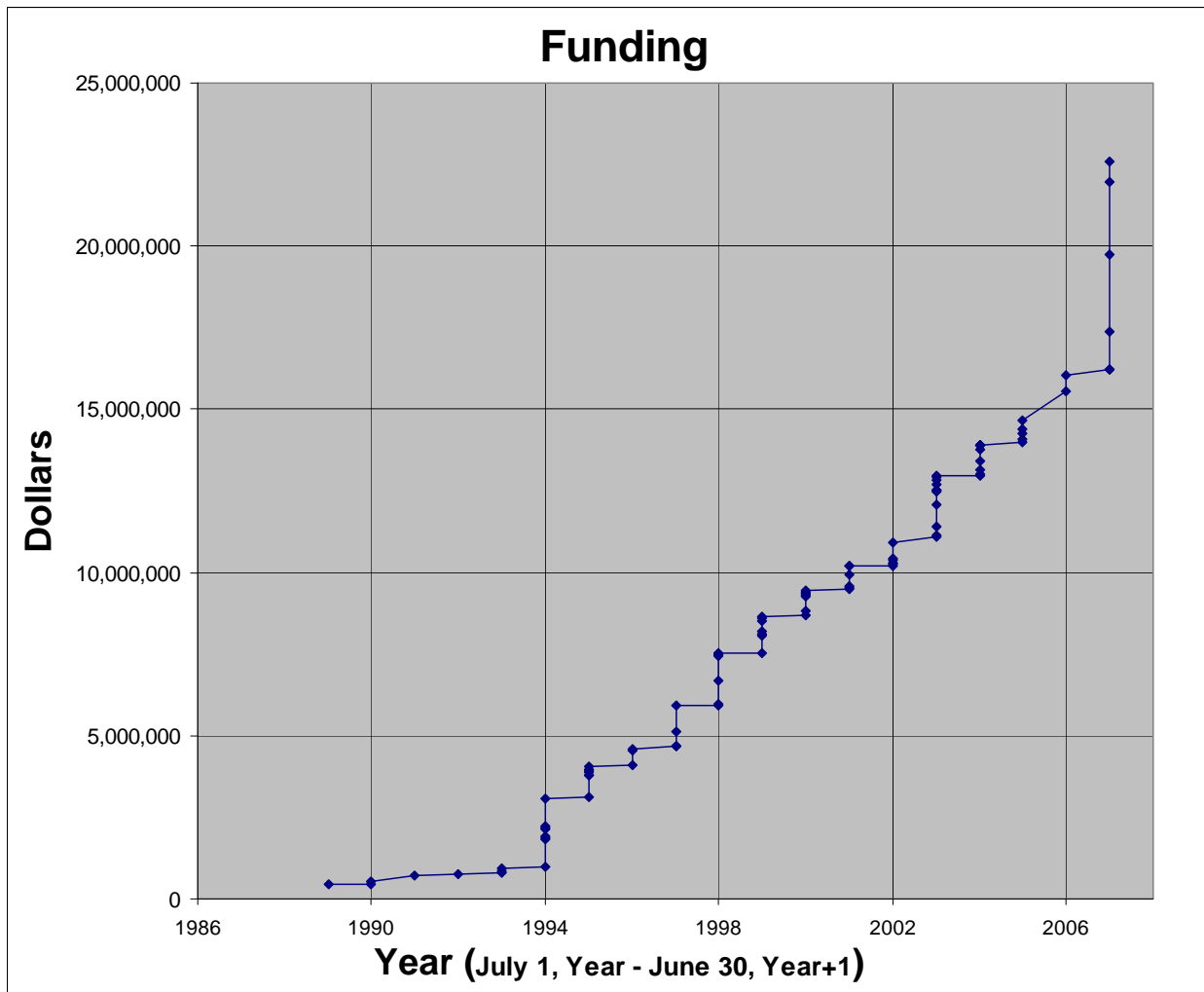


Fig 1. Funding history for M. Vouk since 1989