

SASA JUNUZOVIC

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EDUCATION

PH.D. IN COMPUTER SCIENCE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL CHAPEL HILL, NC, USA	AWARDED	MAY 2010
	GPA	4.0
M.S. IN COMPUTER SCIENCE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL CHAPEL HILL, NC, USA	AWARDED	MAY 2006
	GPA	4.0
B.S. OF MATHEMATICS HONORS COOP COMPUTER SCIENCE WITH INFORMATION SYSTEMS OPTION UNIVERSITY OF WATERLOO WATERLOO, ON, CANADA	AWARDED	MAY 2004
	CUMULATIVE AVERAGE (GPA)	91% (4.0)
	DISTINCTIONS	DEAN'S LIST

RESEARCH – CSCW AND HCI

POST DOC @ MICROSOFT RESEARCH (CSCW AND HCI; HARDWARE, APPS, AND USER STUDIES)
DESIGN, DEVELOP, AND EVALUATE NEXT-GENERATION VIDEOCONFERENCING SYSTEMS. (MANAGER: KORI INKPEN)
DISSERTATION RESEARCH @ UNC (CSCW; THEORY AND SYSTEMS)
DISSERTATION TITLE: TOWARDS SELF-OPTIMIZING FRAMEWORKS FOR COLLABORATIVE SYSTEMS (ADVISOR: PROFESSOR PRASUN DEWAN) FOCUSED ON IMPROVING PERFORMANCE ASPECTS OF COLLABORATIVE SYSTEMS BY CREATING AN ANALYTICAL MODEL FOR THEM AND APPLYING IT IN A NEW COLLABORATIVE FRAMEWORK THAT SELF-OPTIMIZES APPLICATION PERFORMANCE.
INTERN RESEARCH @ MICROSOFT RESEARCH (CSCW AND HCI; APPLICATIONS AND USER STUDIES)
RESEARCH INTERN (2005, 2006, 2007, 2008) AND RESEARCH CONTRACTOR (2009) AT MICROSOFT RESEARCH. DESIGNED AND EVALUATED NEW USER-INTERFACES FOR COLLABORATIVE APPLICATIONS, INCLUDING MULTI-USER EDITORS, VIDEOCONFERENCING APPLICATIONS, AND MEETING REPLAY SYSTEMS.

HONORS AND AWARDS

2008-2010	MICROSOFT RESEARCH FELLOW
2008-2010	NATURAL SCIENCES AND ENGINEERING COUNCIL OF CANADA (NSERC) POST-GRADUATE SCHOLARSHIP (PGS D)
2004-2005	SCHOLARS FOR TOMORROW FELLOW

PATENTS

2011	SASA JUNUZOVIC , TOM BLANK, BRUCE CLEARLY, ANOOP GUPTA, AND ANDREW WILSON. INTERACTIVE AND SHARED SURFACES. <i>IN SUBMISSION</i> .
	TOM BLANK, STEVIE BATHICHE, ANOOP GUPTA, ANDREW WILSON, AND SASA JUNUZOVIC . COMBINED PROJECTION, LIGHTING, AND IMAGE CAPTURE WITHOUT VIDEO FEEDBACK. <i>IN SUBMISSION</i> .
2010	KORI INKPEN QUINN, RAJESH HEGDE, ZHENGYOU ZHANG, JOHN TANG, SASA JUNUZOVIC , AND CHRISTOPHER BROOKS. "ACCELERATED INSTANT REPLAY FOR CO-PRESENT AND DISTRIBUTED MEETINGS." US PATENT APPLICATION 20110267419. NOV 3, 2011.
	RAJESH HEGDE, ZHENGYOU ZHANG, PHILIP A. CHOU, CHA ZHANG, ZICHENG LIU, AND SASA JUNUZOVIC . "MULTI DEVICE CAPTURE AND SPATIAL BROWSING OF CONFERENCES." US PATENT APPLICATION 20100089416. APR 8, 2010.
2009	SASA JUNUZOVIC , RAJESH HEGDE, LI-WEI HE, ZHENGYOU ZHANG, AND STEVEN DRUCKER. "PERSISTENT COLLABORATIVE FRAMEWORK FOR INTERACTIVE WEB APPLICATIONS." US PATENT 7624145. NOV 24, 2009.
2007	SASA JUNUZOVIC , PRASUN DEWAN, AND YONG RUI. "VIRTUAL SHADOW AWARENESS FOR MULTI-USER EDITORS." US PATENT 7774703. AUG 10, 2010.

CONFERENCE PAPERS

2012	SASA JUNUZOVIC , KORI INKPEN, JOHN TANG, MARA SEDLINS, AND KRISTIE FISHER. "TO SEE OR NOT TO SEE: A STUDY COMPARING FOUR-WAY AVATAR, VIDEO, AND AUDIO CONFERENCING FOR WORK." 8 TH ACM CONFERENCE ON SUPPORTING GROUP WORK (GROUP). SANIBEL ISLAND, FL. NOV 2012. IN PRINT.
	SASA JUNUZOVIC , KORI INKPEN, TOM BLANK, AND ANOOP GUPTA. "ILLUMISHARE: SHARING ANY SURFACE." 30 TH ACM CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI). AUSTIN, TX. MAY 2012. (ACCEPTANCE RATIO: 0.23)
	SASA JUNUZOVIC AND PRASUN DEWAN. "TOWARDS SELF-OPTIMIZING COLLABORATIVE SYSTEMS." 14 TH ACM CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK (CSCW). SEATTLE, WA. FEBRUARY 2012. IN PRINT. (ACCEPTANCE RATIO: ~0.40)

CONFERENCE PAPERS (CONTINUED)

2011	SASA JUNUZOVIC , KORI INKPEN, RAJESH HEGDE, AND ZHENGYOU ZHANG. "TOWARDS IDEAL WINDOW LAYOUTS FOR MULTI-PARTY, GAZE-AWARE DESKTOP VIDEOCONFERENCING." 37 TH GRAPHICS INTERFACE CONFERENCE (GI). ST. JOHN'S, NL, CANADA. MAY 2011. IN PRINT. (ACCEPTANCE RATIO: 0.32)
	SASA JUNUZOVIC , KORI INKPEN, RAJESH HEGDE, ZHENGYOU ZHANG, JOHN TANG, AND CHRISTOPHER BROOKS. "WHAT DID I MISS? IN-MEETING REVIEWING USING MULTIMODAL ACCELERATED INSTANT REPLAY (AIR) CONFERENCING." 29 TH ACM CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI). VANCOUVER, BC, CANADA. MAY 2011. (ACCEPTANCE RATIO: 0.26)
	SASA JUNUZOVIC AND PRASUN DEWAN. "SCHEDULING IN VARIABLE-CORE COLLABORATIVE SYSTEMS." 13 TH ACM CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK (CSCW). HANGZHOU, CHINA. MARCH 2011. BEST PAPER NOMINEE . (ACCEPTANCE RATIO: 0.22)
2009	SASA JUNUZOVIC AND PRASUN DEWAN. "LAZY SCHEDULING OF PROCESSING AND TRANSMISSION TASKS IN COLLABORATIVE SYSTEMS." 6 TH ACM CONFERENCE ON SUPPORTING GROUP WORK (GROUP). PAGES: 159-168. SANIBEL ISLAND, FL. MAY 2009. (ACCEPTANCE RATIO: 0.37)
2008	SASA JUNUZOVIC AND PRASUN DEWAN. "SERIAL VS. CONCURRENT SCHEDULING OF TRANSMISSION AND PROCESSING TASKS IN COLLABORATIVE SYSTEMS." 4 TH INTERNATIONAL CONFERENCE ON COLLABORATIVE COMPUTING: NETWORKING, APPLICATIONS AND WORKSHARING (COLLABORATECOM). PAGES: 746-759. ORLANDO, FL. NOV 2008. (ACCEPTANCE RATIO: 0.36)
	SASA JUNUZOVIC , RAJESH HEGDE, ZHENGYOU ZHANG, PHILIP A. CHOU, ZICHENG LIU, AND CHA ZHANG. "REQUIREMENTS AND RECOMMENDATIONS FOR AN ENHANCED MEETING VIEWING EXPERIENCE." 16 TH ACM INTERNATIONAL CONFERENCE ON MULTIMEDIA (MM). PAGES: 539-548. VANCOUVER, BC, CANADA. OCT 2008. (ACCEPTANCE RATIO: 0.18)
2007	SASA JUNUZOVIC AND PRASUN DEWAN. "MULTICASTING IN GROUPWARE?" 3 RD IEEE INTERNATIONAL CONFERENCE ON COLLABORATIVE COMPUTING: NETWORKING, APPLICATIONS AND WORKSHARING (COLLABORATECOM). PAGES: 168-177. NEW YORK, NY. NOV 2007.
	SASA JUNUZOVIC , PRASUN DEWAN, AND YONG RUI. "READ, WRITE, AND NAVIGATION AWARENESS IN REALISTIC MULTI-VIEW COLLABORATIONS." 3 RD IEEE INTERNATIONAL CONFERENCE ON COLLABORATIVE COMPUTING: NETWORKING, APPLICATIONS AND WORKSHARING (COLLABORATECOM). PAGES: 494-503. NEW YORK, NY. NOV 2007.
	PRASUN DEWAN, SASA JUNUZOVIC , AND GOVINDARAJ SAMPATHKUMAR. "THE SYMBIOTIC RELATIONSHIP BETWEEN THE VIRTUAL COMPUTING LAB AND COLLABORATION TECHNOLOGY." 1 ST INTERNATIONAL CONFERENCE OF THE VIRTUAL COMPUTING INITIATIVE (ICVCI). RALEIGH, NC. MAY 2007.

2006	SASA JUNUZOVIC AND PRASUN DEWAN. "RESPONSE TIMES IN N-USER REPLICATED, CENTRALIZED, AND PROXIMITY-BASED HYBRID COLLABORATION ARCHITECTURES." 10 TH ACM CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK (CSCW). PAGES: 129-138. BANFF, AB, CANADA. NOV 2006. (ACCEPTANCE RATIO: 0.22)
2005	SASA JUNUZOVIC , GOOPEEL CHUNG, AND PRASUN DEWAN. "FORMALLY ANALYZING TWO-USER CENTRALIZED AND REPLICATED ARCHITECTURES." 9 TH EUROPEAN CONFERENCE ON COMPUTER-SUPPORTED COOPERATIVE WORK (ECSCW). PAGES: 83-102. PARIS, FRANCE. SEP 2005. (ACCEPTANCE RATIO: 0.19)

POSTERS

2010	KORI INKPEN, RAJESH HEGDE, SASA JUNUZOVIC , CHRISTOPHER BROOKS, JOHN TANG, AND ZHENGYOU ZHANG. "AIR CONFERENCING: ACCELERATED INSTANT REPLAY FOR IN-MEETING MULTIMODAL REVIEW." 18 TH ACM INTERNATIONAL CONFERENCE ON MULTIMEDIA (MM). FLORENCE, ITALY. OCT 2010. PAGES: 663-666. (ACCEPTANCE RATIO: 0.30)
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DEMOS

2012	SASA JUNUZOVIC , KORI INKPEN QUINN, TOM BLANK, AND ANOOP GUPTA. INTERACTIVITY TRACK AT 30 TH ACM CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI). AUSTIN, TX. MAY 2012.
2011	RAJESH HEGDE, JONGHYUN HAN, SHU SHI, KORI INKPEN, SASA JUNUZOVIC , ASTA ROSEWAY, JOHN TANG, AND ZHENGYOU ZHANG. "AIRMOBILE: ACCELERATED INSTANT REPLAY FOR IN-MEETING REVIEW BY MOBILE USERS." 13 TH ACM CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK (CSCW). HANGZHOU, CHINA. MARCH 2011.

TUTORIALS

2006	PRASUN DEWAN AND SASA JUNUZOVIC . "HANDS-ON INTRODUCTION TO SYNCHRONOUS GROUPWARE." 10 TH ACM CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK (CSCW). BANFF, ALBERTA, CANADA. NOV 2006.
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WORKSHOPS

2012	JOHN TANG, KORI INKPEN QUINN, AND SASA JUNUZOVIC . "USING VIDEO TO CREATE SHARED EXPERIENCES FOR FAMILIES." TECHNOLOGY IN FAMILIES WORKSHOP AT 30 TH ACM CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI). AUSTIN, TX. MAY 2012.
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TEACHING

2007	<p>INSTRUCTOR. "INTRODUCTION TO PROGRAMMING (COMP 110)." FALL 2007. UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL.</p> <ul style="list-style-type: none"> WEBSITE: http://www.cs.unc.edu/~sasa/teaching/fall2007/comp110/
2002-2004	<p>FIVE-TIME TEACHING ASSISTANT. FIRST YEAR CALCULUS, LINEAR ALGEBRA, AND CLASSICAL ALGEBRA. MATHEMATICS TUTORIAL CENTER. UNIVERSITY OF WATERLOO. CANADA.</p>

ACADEMIC COMMUNITY INVOLVEMENT

2013	CSCW 2013 VIDEO TRACK CO-CHAIR
2012	GROUP 2012 PROGRAM COMMITTEE MEMBER
2011	CRIWG 2011 PROGRAM COMMITTEE MEMBER
2010	CSCW 2010 COMPUTING CO-CHAIR
REVIEWER	CSCW, CHI, EICS, PACIFIC GRAPHICS, CSUR, IUI, CRIWG, AND OTHERS

WORK EXPERIENCE

MICROSOFT RESEARCH	<p>AUG 2010 – AUG 2012: VIBE GROUP (VISUALIZATION AND INTERACTION FOR BUSINESS AND ENTERTAINMENT)</p>
POST DOC	<p>DESIGN, DEVELOP, AND EVALUATE NEXT-GENERATION VIDEOCONFERENCING SYSTEMS.</p> <ul style="list-style-type: none"> MANAGER: KORI INKPEN
MICROSOFT RESEARCH	<p>AUG 2009 – SEP 2009: VIBE GROUP</p>
RESEARCH CONTRACTOR	<p>EVALUATED A SYSTEM THAT ALLOWS USERS WHO MISS A PART OF A MEETING TO CATCH UP ON WHAT THEY MISSED EVEN AS THE MEETING IS ONGOING. PERFORMED USER STUDY EVALUATING SEVERAL REPLAY TECHNIQUES, INCLUDING TEXTUAL, AUDIO, AND VISUAL MECHANISMS, AND COMBINATIONS OF THEM. DETAILS ARE PATENT AND PUBLICATION PENDING.</p> <ul style="list-style-type: none"> US PATENT APPLICATION #20110267419; MANAGER: KORI INKPEN
MICROSOFT RESEARCH	<p>MAY 2008 – SEP 2008: VIBE GROUP</p>
RESEARCH INTERN	<p>INVESTIGATED USER PREFERENCES FOR WINDOW LAYOUTS IN MULTI-WAY VIDEOCONFERENCING APPLICATIONS. A USER STUDY REVEALED THAT USERS PREFER CERTAIN LAYOUTS AND DISLIKE CERTAIN OTHER LAYOUTS. BASED ON STUDY RESULTS, PROPOSED LAYOUT GUIDELINES FOR FUTURE SYSTEMS.</p> <ul style="list-style-type: none"> GI 2011; MANAGER: KORI INKPEN

WORK EXPERIENCE (CONTINUED)

	<p>MAY 2007 – AUG 2007: COMMUNICATIONS AND COLLABORATION SYSTEMS (CCS) GROUP</p> <p>IMPLEMENTED A NEW MEETING REPLAY SYSTEM THAT PROVIDES INFORMATION SUCH AS WHO IS SPEAKING, WHO THE SPEAKER IS TALKING TO AND LOOKING AT, AND WHETHER SIDE CONVERSATIONS ARE ONGOING. SYSTEM ARRANGES VIDEOS OF PARTICIPANTS IN A 3D INTERFACE THAT PRESERVES THE ORIGINAL SPATIAL RELATIONSHIP OF THE PARTICIPANTS. PERFORMED USER STUDY COMPARING THE NEW SYSTEM AND STATE OF THE ART SYSTEMS. STUDY REVEALED NEW RECOMMENDATIONS AND REQUIREMENTS FOR FUTURE MEETING VIEWERS.</p> <ul style="list-style-type: none"> ACM MULTIMEDIA 2008; US PATENT APPLICATION #20100085416; MANAGER: ZHENGYOU ZHANG
	<p>MAY 2006 – AUG 2006: CCS GROUP</p> <p>CREATED A FRAMEWORK FOR WEB APPLICATIONS THAT ENABLES DEVELOPERS TO ADD COLLABORATIVE FUNCTIONALITY, SUCH AS REAL-TIME SHARING, AWARENESS, CONCURRENCY CONTROL, AND CONSISTENCY MAINTENANCE TO ARBITRARY APPLICATIONS. DEMONSTRATED ITS FLEXIBILITY IN A VARIETY OF APPLICATIONS, INCLUDING MULTI-USER EDITORS AND MULTI-PLAYER GAMES.</p> <ul style="list-style-type: none"> US PATENT #7624145; MANAGER: ZHENGYOU ZHANG <p>MAY 2005 – AUG 2005: CCS GROUP</p> <p>INVESTIGATED TOOLS THAT MAKE USERS AWARE OF WHEN THEIR COLLABORATORS ARE PERFORMING POTENTIALLY CONFLICTING EDITS AND READING WHAT THE USERS ARE WRITING. THESE TOOLS WERE BASED ON THE REAL-LIFE METAPHOR OF SHADOWS. IMPLEMENTED TOOLS IN A MULTI-USER EDITOR AND EVALUATED THEM THROUGH A USER STUDY. STUDY REVEALED THAT THE TOOLS WERE HELPFUL IN COORDINATING ACTIVITIES.</p> <ul style="list-style-type: none"> IEEE COLLABORATECOM 2007; U.S. PATENT #7774703; MANAGER: YONG RUI
OTHER INTERNSHIPS APPLICATION DEVELOPER (2+ YEARS OF EXPERIENCE)	MICROSOFT, REDMOND, WA: MAY – AUG 2004
	MICROSOFT, REDMOND, WA: MAY – AUG 2003
	TSX GROUP, TORONTO, ON, CANADA: JAN – APR 2003
	TSX GROUP, TORONTO, ON, CANADA: SEP – DEC 2003
	MITRA IMAGING INC, WATERLOO, ON, CANADA: SEP – DEC 2000
	MITRA IMAGING INC, WATERLOO, ON, CANADA: MAY – AUG 2001
	MACLEAN ENGINEERING & MARKETING Co., COLLINGWOOD, ON, CANADA: JAN – APR 2000

REFERENCES

AVAILABLE UPON REQUEST.