

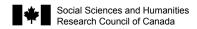
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						Internal use	CID (if know	n)
824765 165510								
Identifi	cation							
Statistical a	and Admin	istrative			able to selection committee membe SHRC for administrative and statistic			•
Name								
Family name				Give	n name		Initials	Title
Antle	Antle Alissa N Dr.				Dr.			
Citizenship - Applicants and co-applicants must indicate their citizenship status by checking and answering the applicable questions.								
Citizenship Canadian Permanent resident since Other (country)  Have you applied for permanent resident since (yyy/mm/dd)								
	Yes ○No					es ONo		
Statistic	al and A	Admini	strative Information	n				
Birth year	Gender		Permanent postal code in Canada (i.e. K2P1G4)		orrespondence language		is contact wi olicant, asse	
1964	●F	$\bigcirc$ M	V5N1H6		● English		Yes	<b>●</b> No
Full name i	full name used during previous contact if different from above							

The foll		ormation formation will help us to cor	ntact you more rapidly. Se	condary ir	nformatio	on will not be released by	SSHRC without your
Primary	telepho	ne number		Second	ary telep	hone number	
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
	778	782-7438					
Primary	fax num	ber		Secondary fax number			
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
	778	782-7488					
Primary E-mail aantle@sfu.ca							
Second	Secondary E-mail						

Web CV 2013/06/13 **Canada** 

Checked



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Family name, Given name
Antle, Alissa

Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address.			Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.			
Address			Address			
City/Municipality  Prov. / State  Postal/2			City/Municipality	Prov. / State	Postal/Zip code	
Country	<u> </u>		Country			
Temporary Address If providing a temporary address, phone ensure that you enter the effective date	e number and	/or E-mail,	Permanent Address in (	CANADA		
Address			Address 2029 East 3rd Ave			
City/Municipality Prov./ State			City/Municipality Vancouver	Prov./ State	Postal/Zip code	
Country			Country CANADA	1		
Start date End date (yyyy/mm/dd) (yyyy/mm/dd)			Temporary telephone/fax number Country Area Number code code	Extension	1	
Temporary E-mail						

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Conseil de recherches en sciences humaines du Canada

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Antle, Alissa

Research Expertise (optiona
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

#### **Areas of Research**

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	242	Information Technologies
2	111	Children
3	140	Education

## **Temporal Periods**

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year   BC   AD	Year   BC   AD

### **Geographical Regions**

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

-						
Rank	Code	Region				
1						
2						
3						

#### Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1			
2			
3			
4			
5			

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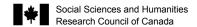
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# **Curriculum Vitae**

Family name, Given name

Antle, Alissa

Language Proficiency						
Read English French	Write Speak Comprehend aurally Other languages  X X X  — — — — — — — — — — — — — — — —					
	nce cademic and non-academic, you have held beginning with the current position and all previous probased on the start year.	ositions in re	everse			
Current position Start da						
Associate Professor 20						
Org. code	Full organization name					
1590611	Simon Fraser University					
Department/Division	name					
School of Inter	ractive Arts & Technology					
Position type	Tenured Non-tenure Employment status Full-time	Part-tir	ne			
	Tenure-track Non-academic Non-salaried	Leave	of absence			
Position	·	Start date (yyyy/mm)	End date (yyyy/mm)			
Visiting Scholar 2011/9						
Org. code	Full organization name					
1	University of British Columbia					
Department/Division	name					
Computer Scie	ence					
Position Start date (yyyy/mm) (y						
Assistant Profe	essor	2005/10	(yyyy/mm) 2011/09			
Org. code	Full organization name					
1590611	Simon Fraser University					
Department/division	name					
School of Inter	ractive Arts & Technology					
Position Start date (yyyy/mm)						
Usability Consultant 2004/10 2						
Org. code	Full organization name					
1	1 Sxip Networks, Vancouver					
Department/Division	name					
Research and Development						
Personal information will	be stored in the Personal Information Bank for the appropriate program.		Web CV			



Family name, Given name
Antle, Alissa

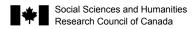
Work Expe	erience (cont'd)			
Position		Start date (yyyy/mm) End date (yyyy/mm)		
Senior Resea	Senior Researcher			
Org. code	Full organization name	2004/10 2005/10		
1590611	Simon Fraser University			
Department/Divis	sion name			
School of In	teractive Arts & Technology			
Position		Start date		
Researcher		(yyyy/mm) (yyyy/mm) 2003/10 2005/10		
Org. code	Full organization name	1 333 1 333 3		
1590111	The University of British Columbia			
Department/Divis				
Faculty of E	ducation			
Position		Start date		
Researcher		(yyyy/mm) (yyyy/mm) 2003/10 2004/10		
Org. code	Full organization name			
1590611	Simon Fraser University			
Department/Divis	sion name			
School of In	teractive Arts & Technology			
Position		Start date (yyyy/mm) End date (yyyy/mm)		
New Media	Consultant	2002/10 2003/10		
Org. code	Full organization name			
1	Pop 6 Media			
Department/Divis	sion name			
Children's Pa	rogramming			
Position		Start date (yyyy/mm) (yyyy/mm)		
Consultant		2000/10 2005/10		
Org. code	Full organization name			
1	Antle Consulting			
Department/Divis				
New Media	Research & Development			
	1			

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Family name, Given name
Antle, Alissa

Work Experie	ence (cont'd)				
Position	Start date (yyyy/mm)	End date (yyyy/mm)			
New Media Co	New Media Consultant				
Org. code	Full organization name				
1	CBC Radio 3 (Home Delivery)				
Department/Division	name				
Advanced Med	lia Research & Development				
Position		Start date (yyyy/mm)	End date (yyyy/mm)		
Creative and Ex	xecutive Director		2002/10		
Org. code	Full organization name				
1	CBC Television, Toronto (CBC4kids.ca)				
Department/Division	name				
Children's Tele	vision CBC4Kids.com				
Position	Start date	End date			
Senior Designe	(yyyy/mm) 1996/10	(yyyy/mm) 2001/10			
Org. code	Full organization name				
1	Brainium Technologies, Vancouver				
Department/Division	name				
Research and I	Development				
Position Start date (yyyy/mm) End date (yyyy/mm)					
Org. code	Full organization name				
Department/Division	name				
Position	Start date (yyyy/mm)	End date (yyyy/mm)			
		(333)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Org. code	Full organization name				
Department/Division	name				

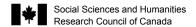


Family name, Given name
Antle, Alissa

Academic B	<u> </u>				
List up to 5 degrees	, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.	
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	(yyyy/mm)	
Doctorate	Ph.D.	1994/09		2000/11	
Disc. code	Discipline		Did SSHRC su you to get this		
61899	Design/Human Computer Interaction/Interactive Maps		Yes	<b>●</b> No	
Org. code	Organization				
1590111	The University of British Columbia				
CANAD	oA				
Degree type	Degree name	Start date		,	
BA Gen.	B.A.	(yyyy/mm) 1985/09	(yyyy/mm)	(yyyy/mm) 1990/11	
Disc. code	Discipline	1903/09	Did SSHRC su		
D100. 000C	Biodipinite		you to get this		
99999	Liberal Arts		Yes	<b>●</b> No	
Org. code	Organization				
1351111	University of Waterloo				
CANAD	OA				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)	
BA Hon.	B.A.Sc.	1985/09		1990/11	
Disc. code	Discipline		Did SSHRC support enable you to get this degree?		
99999	System Design Engineering		Yes	<b>●</b> No	
Org. code	Organization				
1351111	University of Waterloo				
CANAD	oA				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)	
Disc. code	Discipline		Did SSHRC su you to get this		
			Yes	No	
Org. code	Organization	'			
Country					
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)	
Disc. code	Discipline		Did SSHRC su you to get this		
			Yes	○ No	
Org. code	Organization				
Country					

Canadä

Web CV



Family name, Given name
Antle, Alissa

#### **Credentials**

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	ACM Computing Review 2012 Notable Paper	Association for Computing Machinery UNITED STATES		\$0 2012
Academic Prize	Advances in Computer Entertainment Diamond Award	Association for Computing Machinery (ACM) UNITED STATES		\$0 2012
Professional Designation	Producer of the Year, Nom. Canada New Media Awards	CANADA		2002
Professional Designation	Codie Award	Software Information Industry Association UNITED STATES		2000
Professional Designation	New Media Envision GOLD Award	CANADA		1997
Graduate Scholarship	NSERC PGS B	CANADA		1996

## **Research Expertise**

The information provided in this section refers to your own research expertise, not to a research proposal.

#### **Keywords**

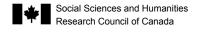
List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

interaction design; tangible user interfaces; child-computer interaction, empirical evaluation methods; exploring theories of embodied interaction; developmental psychology; cognitive psychology; developing designm frameworks & design & evaluation method

#### **Disciplines**

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	99999	Other	Interaction Design Research
2	61252	Educational Technology (Media)	
3			
4	80200	Computer and Information Science and Operations Research	
5	70000	Interdisciplinary Studies	

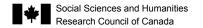


Family name, Given name	
Antle, Alissa	

Funded Research					
List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name.					
Org. code				Total amount (CAN\$)	
3010325	Social Sciences and Humanities Research Council of Canada 010325		2013	\$178,089	
Role	Applicant		Completion status	Complete	
Project title	Children's Hands-on Problem Solv	ing withTangible User Interfa	ces		
Applicant's f	amily name	Applicant's given name		Initials	
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)	
1	Networks of Centres of Excellenc	e (NCE) GRAND	2013	\$40,000	
Role	Applicant		Completion status	Complete	
Project title	Project lead for Kidz, GrnCity, Af	Eval DiGTL			
	Trojecticus for muz, emeny, m				
Applicant's f	amily name	Applicant's given name		Initials	
Org. code	Full name of funding organization  Networks of Centres of Excellenc	e (NCE) GRAND	Year awarded (yyyy)	Total amount (CAN\$)	
1	retworks of centres of Executive	e (NCL) GRAND	2012	\$60,000	
Role	Applicant		Completion status X Complete		
Project title	Digikidz, GrnCty, AfEval, DiGTL				
Applicant's f	amily name	Applicant's given name Init		Initials	
Booth Kelly		Kelly			
Org. code			Year awarded (yyyy)	Total amount (CAN\$)	
1	PICS		2012	\$36,000	
Role Collaborator			Completion status X Complete		
Project title GrnCty					
Applicant's family name		Applicant's given name		Initials	
Robinson		John			

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Family name, Given name	
Antle, Alissa	

Funded	Research (cont'd)	<u>'</u>				
Org. code			Year awarded (yyyy)	Total amount (CAN\$)		
3010316	Natural Sciences and Engineering Research Council of Canada		2011	\$5	55,000	
Role	Applicant		Completion status	s 🔲 (	Complete	
Project title	Image Schema and Conceptual Me	etaphor-based Whole Body Us	er Interfaces			
Applicant's f	amily name	Applicant's given name	Initials		Initials	
Org. code	Full name of funding organization		Year awarded (yyyy)		otal amount (CAN\$)	
3010325	Social Sciences and Humanities R	Research Council of Canada	2010	\$14,244		
Role	Applicant		Completion status	s <b>X</b> (	Complete	
Project title	Pooling Knowledge: A Program of	f Research in Interaction Desig	gn Methods fo	or Chi	ldren	
Applicant's family name  Applicant's given name				1	Initials	
Org. code	Full name of funding organization		Year awarded (yyyy)		Total amount (CAN\$)	
3010325	Social Sciences and Humanities Research Council of Canada		2007	\$40,000		
Role Applicant			Completion status X Complete			
Project title Evaluating Embodied Child-Computer-Interaction: A Design Oriented Mixed Methods Approach						
Applicant's family name Applicant's given name		Applicant's given name	Initials		Initials	
Org. code Full name of funding organization		Year awarded (yyyy)		Total amount (CAN\$)		
Natural Sciences and Engineering Research Council of Canada			2006	\$102,624		
Role Applicant			Completion status X Complete			
Project title Mixed Reality Laboratory Infrastructure						
Applicant's family name Appl		Applicant's given name		ı	Initials	
				]	N	

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## 1. Research Contributions Over the Last Six Years

- "\*" indicates research contributions that resulted from previous SSHRC support
- Boldfacing = co-authors supervised and for all co-authored my role includes: concept, study design, analysis, writing.

## **Refereed Book Chapters and Segments** (7, 2009-2013 + 2 forthcoming in 2013)

- 1. \*Antle, A. N. and **Bevans, A.** (2012) Creative Design: Exploring value propositions with urban Nepalese children. In Nijholt, A., Romão, T. and Reidsma, D. (Eds.), *Advances in Computer Entertainment, Lecture Notes in Computer Science* (Vol. 7624, pp. 465-468) Springer, Berlin / Heidelberg DOI 10.1007/978-3-642-34292-9\_36. [ACE Diamond Award]
- 2. Antle, A.N., Corness, G., and **Bevans, A.** (2011) Springboard: Designing image schema based embodied interaction for an abstract domain. *Human-Computer Interaction Series*: *Whole Body Interaction*, Springer, 7-18. http://dx.doi.org/10.1007/978-0-85729-433-3.
- 3. \*Antle, A.N., **Tanenbaum, J.**, **Bevans, A.**, **Seaborn, K.**, and **Wang, S.** (2011). Balancing act: Enabling public engagement with sustainability issues through a multi-touch tabletop collaborative game. In P. Campos, N. Graham, J. Jorge, N. Nunes, P. Palanque, and M. Winckler (Eds.), *Human-Computer Interaction INTERACT 2011, Lecture Notes in Computer Science* (Vol. 6947, pp. 194-211). Springer, Berlin/Heidelberg.
- 4. **Speelpenning, T.**, Antle, A.N., **Doring, T.** and van den Hoven, E. (2011) Exploring how a tangible tool enables collaboration in a multi-touch tabletop game. In In P. Campos, N. Graham, J. Jorge, N. Nunes, P. Palanque, and M. Winckler (Eds.), *Human-Computer Interaction INTERACT 2011*, *Lecture Notes in Computer Science* (Vol. 6947, pp. 605-621), Springer Berlin/Heidelberg.
- 5. \*Seaborn, K. and Antle, A.N. (2011) Designing a wearable vibrotactile feedforward wrist display for novice gameplay. *Entertainment Computing ICEC 2011, Lecture Notes in Computer Science* (Vol. 6972, pp 379-382) Springer, Berlin/Heidelberg.
- 6. Antle, A.N., **Corness, G.**, and **Bevans, A.** Springboard: Designing image schema based embodied interaction for an abstract domain. *Human-Computer Interaction Series: Whole Body Interaction* (2011), Springer, 7-18. Available online http://dx.doi.org/10.1007/978-0-85729-433-3
- 7. **Tanenbaum, K.** and Antle, A.N. An embodied approach to concept mapping on a tangible tabletop. In (eds.) Rieger, B., Amouzegar, M.A., and Ao. S. I. *IAENG Transactions on Engineering Technologies Volume II -Special Edition of the World Congress on Engineering and Computer Science* (2009), American Institute of Physics, pp. 121-132.

### **Refereed Journal Articles** (7, 2009-2013 + 2 forthcoming 2013)

- 8. Antle, A.N. and Wise, A.F. Getting down to details: Using theories of cognition and learning to inform tangible user interface design, *Interacting with Computers* 25, 1 (2013), 1-20. DOI: 10.1093/iwc/iws007 [Five Year Impact Factor 1.455]
- 9. Antle, A.N. Research Opportunities: Embodied child-computer interaction, *International Journal of Child-Computer Interaction*, 1, 1 (2013), 30-36. DOI: 10.1016/j.ijcci.2012.08.001 [invited paper]
- 10. \*Antle, A.N. Exploring how children use their hands to think: An embodied interactional analysis, *Behaviour and Information Technology*, (2012) 1-17. DOI: 10.1080/0144929X.2011.630415
- 11. **Bakker**, S., Antle, A.N. and van den Hoven, E. Embodied metaphors in interaction design, Personal and Ubiquitous Computing, Special Issue on Children and Tangibles, (2012), 433-449. DOI: 10.1007/s00779-011-0410-4 [ACM 2012 Notable Paper Award]
- 12. \*Antle, A.N., Corness, G., and Droumeva, M. What the body knows: Exploring the benefits of embodied metaphors in hybrid physical digital environments, *Interacting with Computers*, 21, 1-2 2009, Elsevier, pp. 66-75.
- 13. Antle, A.N., **Corness, G.**, and **Droumeva, M**. Human-Computer-Intuition? Exploring the cognitive basis for intuition in embodied interaction. *Intl J of Arts and Technology*, 2, 3, 2009, pp. 235-254.
- 14. Antle, A.N. Child-based personas: Need, ability and experience. *Cognition, Technology and Work, Special Issue on Child Computer Interaction*, Springer, London, UK, 2008, pp. 155-166.

## **Refereed Conference Proc: Full Papers and Notes** (16, 2009-2013)

- 15. **Tanenbaum, J.,** Antle, A.N. and Robinson, J. Three perspectives on behavior change for serious games. In *Proceedings of Human Factors in Computing Systems* (CHI '13), ACM press (Paris, France, April 27 May 2, 2013), 3389-3392.
- 16. Antle, A.N. and **Wang, S.** Comparing motor-cognitive strategies for spatial problem solving with tangible and multi-touch interfaces. In *Proceedings of Conference on Tangible, Embedded and Embodied Interaction* (TEI '13), ACM Press (Barcelona, Spain, February 10-13, 2013), 65-72.
- 17. **Macret, M.**, Pasquier, P. and Antle, A.N. Can a paper-based sketching interface improve the gamer experience in strategy computer games? In *Proceedings of Conference on Intelligent Human Computer Interaction* (IHCI '12), IEEE Press (Kharagpur, India, December 27-29 2012), 285-290.
- 18. \*Antle, A.N. Knowledge gaps in hands-on tangible interaction research, In *Proceedings of International Conference of Multi-modal Interaction* (ICMI '12), ACM Press, (Santa Monica, CA, USA, Oct 22-26, 2012), 233-240.
- 19. **Hillman, S.** Neustaedter, C., Bowes, J. and Antle, A.N. Soft trust and mCommerce shopping behaviours. In *Proc of Conference on Mobile HCI*, ACM Press (San Francisco, CA, USA, September 21 24, 2012), 113-122.
- 20. **Macaranas, A.**, Antle, A.N. and Reicke, B. Bridging the gap: Attribute and spatial metaphors for tangible interface design. In *Proc of Conference on Tangible, Embedded and Embodied Interaction*, ACM Press (Kingston, Canada, Feb 19-23, 2012), pp. 161-168.
- 21. \*Antle, A.N., Wise, A., and **Neilsen, K**. Making theory tangible: Using learning theory to inform tangible design for children. In *Proc of Conference on Interaction Design for Children* (IDC'11), ACM Press (Ann Arbor, MI, USA, 2011), pp. 11-20. [31% acceptance rate]
- 22. \*Bekker, M.M. and Antle, A.N. Developmentally Situated Design (DSD): A design tool for child-computer interaction. In *Proc of Conference on Human Factors in Computing Systems* (CHI '11), ACM Press (Vancouver, Canada, 2011), pp. 2531-2540. [26% acceptance rate]
- 23. \*Antle, A.N., **Bevans, A., Tanenbaum, J., Seaborn K.,** and **Wang, S.** Futura: Design for collaborative learning and game play on a multi-touch digital tabletop. In *Proc of Conference on Tangible, Embedded and Embodied Interaction* (TEI'11), ACM Press (Portugal, 2011), pp. 93-100. [32% across all submission categories, 18% long papers]
- 24. **Bakker, S.,** van den Hoven, E., and Antle, A.N. Embodied metaphors in a tangible system for learning: a user evaluation. In *Proc of Conference on Tangible, Embedded and Embodied Interaction* (TEI'11), ACM Press (Portugal, 2011), pp. 85-92. [32% across all categories, 18% long papers]
- 25. \*Tanenbaum, K., Tanenbaum, J., Antle, A.N., El-Nasr, M.S., and Hatala, M. Experiencing the Reading Glove. In *Proc Conference on Tangible, Embedded and Embodied Interaction* (TEI'11), ACM Press (Portugal, 2011), pp. 137-144. [32% across all submission categories, 18% long papers]
- 26. **Vidyarthi, J.**, Riecke, B, and Antle, A.N. Sympathetic Guitar: Human social response to remote interaction paradigms in abstract, expressive contexts. In *Proc Computational Aesthetics in Graphics, Visualization, and Imaging,* ACM Press (Vancouver, Canada, 2011), pp. 9-16.
- 27. \*Tanenbaum, J., Tanenbaum, K., and Antle, A.N. The reading glove: Designing narrative and interactions for object-based tangible storytelling. In *Proc of Augmented Human International Conference*, ACM Press (Megève, France, 2010), pp. 132-140.
- 28. \*Antle, A.N., Corness, G., Bakker, S., Droumeva, M., van den Hoven, E., and Bevans, A. Designing to support reasoned imagination through embodied metaphor. In *Proc of Creativity and Cognition (C&C '09)*, ACM Press (Berkeley, CA, USA, 2009), pp. 275-284. [23% acceptance rate]
- 29. **Bakker**, **S.**, Antle, A.N., and van den Hoven, E. Identifying embodied metaphors in children's sound-action mappings. In *Proc of Interaction Design for Children (IDC'09)*, ACM Press (Lake Como, Italy, 2009), pp. 140-149.

30. \*Antle, A.N., **Droumeva, M.,** and **Ha, D.** Hands on what? Comparing children's mouse-based and tangible-based interaction. In *Proc of Interaction Design for Children (IDC'09)*, ACM Press (Lake Como, Italy, 2009), pp. 80-88.

Refereed Conf. Short Papers 2007- 2013 (18); Workshop Proposals (5); Conference Posters (14)

Non-refereed Contributions (2) See also portfolio of prototypes <a href="http://www.antle.iat.sfu.ca">http://www.antle.iat.sfu.ca</a> (8).

- 31. Marshall, P., Antle, A.N., van den Hoven, E. and Rogers, Y. (eds.) Introduction to special issue on embodied interaction in HCI and interaction design. *ACM Transactions on Human-Computer Interaction* 20, 1 (ToCHI), (2013), 1-3.
- 32. Antle, A.N. Embodied child computer interaction -- Why embodiment matters, *ACM Interactions, March+April Issue* (2009), pp. 27-30. (Invited article, magazine distributed to all SIGCHI members, SIGCHI is the world's largest association of HCI professionals)

## Forthcoming Contributions

## **Refereed Journal Publications** (2 in press, 2013)

- 33. \*K. Tanenbaum, M. Hatala, J. Tanenbaum, R. Wakkary, A. Antle, Adaptivity in a tangible storytelling system: A case study, *User Modeling and User-Adapted Interaction* (2013), in press.
- 34. Antle, A.N., Corness, G., and **Bevans, A.** Balancing justice: Comparing whole body and controller-based interaction for an abstract domain, *International Journal of Arts and Technology, Special Issue on Whole Body Interaction: Applications, Case Studies, Evaluations and Critical Theory* (2013), in press.

## **Book Chapters and Segments** (2 accepted, 2013)

- 35. Antle, A.N., **Tanenbaum, J.**, **Macaranas, A.** and Robinson, J. Games for change: Looking at models of persuasion through the lens of design. In. Nijholt, A. (Ed.) *Playful User Interfaces: Interfaces that Invite Social and Physical Interaction*, Springer, 2013 (to appear).
- 36. Chisik, Y., Antle, A.N., Birtles, B., Segura Márquez, E. and Sylla, C. The Kathmandu Children's Entertainment Workshops. In Cheok, D.A. Nijholt, A., Romão, T. (Eds) *Entertaining the Whole World* (to appear).

#### **Refereed Conference Publications** (1 in press, 2013)

37. Antle, A.N., Wise, A.F., **Willis, A.**, **Tan, P.**, **Nowroozi, S.**, **Eckerssley, R.**, **Fan, M.**, **Warren, J.** Youtopia: A collaborative, tangible, multi-touch, sustainability learning activity. In Proceedings of Int Conf on Interaction Design for Children (IDC '13), ACM Press (New York City, NY, USA, June 24 – 27, 2013), in press.

### 2. Other Research Contributions

Reviewer for: ACM Conference on Interaction Design for Children (2004-2013), ACM Conference on Human Factors in Computer Systems (2008-2013); ACM Computer Supported Collaborative Work (2010-13); Computer Supported Collaborative Learning (2009-2013); IEEE Computer Graphics and Applications (2008-2013); IEEE Tabletops (2008-2013); Graphics Interfaces (2008-2012); ACM Creativity and Cognition (2008-2012); and journals including: Journal of Human Computer Studies, Interacting with Computers, International Journal of Arts and Technology, Personal and Ubiquitous Computing, Design Issues, and Intl Journal of HCI; and also a book proposal: Sage Publications.

#### **SFU Departmental Committees**

*Current:* Chair, SIAT Research Labs and Infrastructure Committee; Graduate Program and Director's Committee Member

*Past:* Faculty Search Committee 2010; SIAT Director Search; Tenure Review and Promotion Committee; Undergraduate Curriculum; SIAT Communications Committee

## **SFU Faculty Committees**

*Current:* Chair Undergraduate Curriculum Cttee (UCC), Member Tenure and Promotions Committee *Past:* Chair Infrastructure and Research Labs Cttee, Member: UCC, Graduate Cttee, FAS Employment Equity, Great Northern Way Masters of Digital Media Program Committee Member

## **Conference Organization**

- Associate Chair Design Subcommittee, ACM Conference on Human Factors in Computing, 2013.
- Papers Associate Chair, ACM Conference on Tangible and Embedded Interaction, 2011-2013.
- Short Papers Chair, ACM Conference on Interaction Design for Children, 2011.
- Technical program Cttee member, ACM Conf on Tangible and Embedded Interaction, 2009-2013.
- Technical program Cttee member, ACM Conf on Interaction Design for Children, 2007-2013.

Service to the Community at Large (Total: 2; 2005-2009)

## 3. Most Significant Career Research Contributions

## **Embodied Interaction Design**

My research has an overarching goal that is to understand, use and extend theories related to embodied interaction in order to inspire, inform and improve the design and evaluation of new forms of user interfaces (e.g. interactive surfaces, tangible user interfaces, whole body interactive environments), which support a wider range of input actions and objects than traditional desktop computers. This focus is reflected in a 2009 ACM CHI workshop on Embodied Interaction, which I lead, and that spawned a 2013 ToCHI special issue on Embodied Interaction [31]. The overall context of much of my research has been *child-computer interaction and design* with applications in problem solving, play and informal learning. An invited paper for the inaugural issue of the International Journal of Child Computer Interaction [9] lays the foundation for the next five years of work in this field. Journal paper [8] reflects my focus on using theory to inform design in embodied child computer interaction. Within this context, I have focused on two specific areas of embodied interaction, which are grounded in physicality. First, the idea of using *image schemas* and *embodied metaphors* in interactional mappings is gaining traction based on a series of empirical studies I conducted that showed evidence of benefit. For example, journal paper [11] was awarded an ACM 2012 Notable Paper. The paper highlights the methodological as well as design knowledge related to this area. The second area is physical interaction with the hands to support problem solving as described in journal paper [10]. A parallel research stream has been investigating the role of games in informal learning for children (e.g. book chapter [35], CHI paper [15], 3 prototypes, e.g. [37]). A practical contribution related to this work is my effort to make theoretical concepts accessible to other researchers as well as design students and practitioners through design methods (e.g. child-personas, design cards) and design frameworks (e.g. CHI paper [22]).

# 4. Contributions to Training

I am *currently* senior supervisor to 3 PhD and 4 Master's students, and also serve as a Supervisory Committee Member for 4 PhD and 4 Master's students. I have also supervised *in the past* 6 years 5 PhD and 7 Master's students including a student who won Best Dutch HCI Award (and ACM 2012 Notable Paper) for her work which built on my research, students with positions at SAP, Google and internships at MSR and Intel, and students who now hold academic positions at Purdue and Toronto (Qian, Assist Prof. Purdue; Grimes, Assist. Prof. Toronto). I have supervised over 30 Research Personnel including two undergraduate students on VPR Research Awards (Nowroozi, Eckersley) and 8 Teaching Assistants. Students I have supervised have won top conference papers (Xie, Tanenbaum, Bakker); SSHRC Master's (Seaborn, Bevans); SSHRC PhD scholarship (Seaborn), NSERC PhD scholarships (Macaranas), Dean's Convocation Medal (K. Tanenbaum), SFU, FCAT & SIAT scholarships (Sr for: Warren, Cramer, Tanenbaum, Larios, Macaranas, May, Seaborn, Bevans, Fan). I involve my students in all stages of my research and publish extensively with them. For example between 2007 and 2013, I have co-authored with students 7 book chapters, 3 journal papers and 14 co-authored long conference papers. I've led or co-led five ACM conference workshops contributing to the training of over 80 graduate students as well as designers from industry and NGOs (e.g. 2011 ACM CHI workshop).