

---

I am a Human-Computer Interaction researcher currently working in the area of new media & recommender systems. My goal in this area is to improve how we interact with recommender and personalisation systems. My vision is to improve technology in general to make it more usable and especially accessibility. I approach this by first identifying a problem, hypothesizing solutions, then testing them with prototypes through user-studies. I bring to the table prior experience as a sysadmin and a technical team lead, as well as the ability to discover and validate users' behaviours through quantitative research.

I believe software is increasingly complex, but they need not be complicated.

---

## EDUCATION

Masters of Computer Science · Baylor University · 2012–2014  
THESIS: Giving the Users a Hand: Towards Touchless Hand Gestures for the Desktop

Bachelor of Computer Science · Coventry University · 2002–2005  
THESIS: Remote PC Manipulation via PDA over Bluetooth

---

## PUBLICATIONS

Reporting and Visualizing Fitts Law: Dataset, Tools and Methodologies  
Alvin Jude, Darren Guinness, and G. Michael Poor  
CHI '16 Extended Abstracts on Human Factors in Computing Systems, (San Jose, CA), ACM (2016)  
<http://dx.doi.org/10.1145/2851581.2892364>

Evaluating Item-Item Similarity Algorithms for Movies  
Lucas Colucci, Prachi Doshi, Kun-Lin Lee, Jiajie Liang, Yin Lin, Ishan Vashishtha, Jia Zhang, and Alvin Jude  
CHI '16 Extended Abstracts on Human Factors in Computing Systems, (San Jose, CA), ACM (2016)  
<http://dx.doi.org/10.1145/2851581.2892362>

Models for Rested Touchless Gestural Interaction  
Darren Guinness, Alvin Jude, G. Michael Poor, and Ashley Dover  
SUI '15 ACM Symposium on Spatial User Interaction (Los Angeles, CA, USA), ACM (2015)  
<http://dx.doi.org/10.1145/2788940.2788948>

Modeling Mid-air Gestures With Spherical Coordinates  
Darren Guinness, Andrew Seung, Ashley Dover, G. Michael Poor, and Alvin Jude  
SUI '15 ACM Symposium on Spatial User Interaction (Los Angeles, CA, USA), ACM (2015)  
<http://dx.doi.org/10.1145/2788940.2794356>

Personal Space: User Defined Gesture Space for GUI Interaction.  
Alvin Jude, G. Michael Poor, and Darren Guinness  
CHI '14 Extended Abstracts on Human Factors in Computing Systems, (Toronto, Canada), ACM (2014)  
<http://dx.doi.org/10.1145/2559206.2581242>

An Evaluation of Touchless Hand Gestural Interaction for Pointing Tasks with Preferred and Non-preferred Hands.  
Alvin Jude, G. Michael Poor, and Darren Guinness  
NordiCHI '14 Proceedings of the 8th Nordic Conference on Human-Computer Interaction, (Helsinki, Finland), ACM (2014)  
<http://dx.doi.org/10.1145/2639189.2641207>

Evaluating Multimodal Interaction with Gestures and Speech for Point and Select Tasks  
Alvin Jude, G. Michael Poor, and Darren Guinness  
NordiCHI '14 Proceedings of the 8th Nordic Conference on Human-Computer Interaction (Helsinki, Finland), ACM (2014)  
<http://dx.doi.org/10.1145/2639189.2670267>

Gestures with Speech for Hand-Impaired Persons  
Darren Guinness, G. Michael Poor, and Alvin Jude  
ASSETS '14 Proceedings of the 16th International ACM SIGACCESS Conference on Computers and Accessibility (New York, NY, USA), ACM (2014)  
<http://dx.doi.org/10.1145/2661334.2661398>

---

## TECHNICAL SKILLS

BASIC : Photoshop · CSS3 · HTML5 · Ember.js · Cassandra · Nagios · Qualitative Research  
INTERMEDIATE : Python · PHP5 · L<sup>A</sup>T<sub>E</sub>X · JQuery · MySQL · R · Matlab · Java · Recommender Systems  
ADVANCED : User-centered Design · Experimental Design · Hypothesis Testing · Gestural Interaction

---

## NON-TECHNICAL SKILLS

COMMUNICATION : Former Malaysian Public Speaking Champion  
ENTREPRENEURSHIP : Baylor NewVenture 2014: Top-5 Finalist & 3rd place Elevator Pitch  
LANGUAGES : English (Native) · Malay (Intermediate)

---

## WORK EXPERIENCE

### Ericsson · 2014–present · Researcher

Currently in the media group, focussing on Next Generation Media Systems. Research focuses on consumer facing systems, including interaction with recommender systems, personalization, media discovery. Performs self-driven research for patent portfolio as well as collaboration with academic partners.

Reference: Nimish Radia · [nimish.radia@ericsson.com](mailto:nimish.radia@ericsson.com)

### Baylor University · 2013–2014 · Research Assistant

Setup new HCI lab. Mentored juniors, established engineering procedures and infrastructure. Performed research in dand-gestural interaction and explored research options with other next-generation devices. As TA, performed overhaul, and introduced framework and developer's manual for software used in-house for teaching database.

Reference: G. Michael Poor · [michael.poor@baylor.edu](mailto:michael.poor@baylor.edu)

Reference: Greg Speegle · [greg.speegle@baylor.edu](mailto:greg.speegle@baylor.edu)

### Self Employed · 2010–2012 · Technical Consultant

Served as an independent consultant for various project and companies including the following:

iOS Development, AGILE PERSPECTIVES — MALAYSIA, 2011–2012

Performed R&D for use of Apple products in financial services. Built and deployed app for one international insurance corporation. Built app for a consumer-facing startup dealing in retail. Role included requirements gathering, feasibility studies, business case development, and technical consultation.

System Administration, COUCHSURFING.ORG, 2010–2011

Deployed a cluster of static content servers with NGinX to reduce the load off the dynamic servers, which resulted in higher reliability or website as a whole. Tools of the trade included Puppet, Zabbix, HAProxy.

### Aflexi · 2009–2010 · System Engineer

Aflexi was a CDN Software startup, and is currently a division of OnApp. Responsibilities were more DevOps involving backend development and system administration. Built a monitoring infrastructure from the ground up (traditionally done with Nagios) with custom scripts running on a specialized Collectd infrastructure; used to feed PowerDNS for DNS-based CDN routing. Tools of the trade included Puppet, Zabbix, Nagios, Reprepro, RRD.

Reference: Whei Wong · [whei.wong@onapp.com](mailto:whei.wong@onapp.com)

### iMocha Consulting · 2007–2010 · Team Lead

Initially hired as a Junior Java Developer, but quickly tasked to build and run a LAMP team of up to 8 people, dealing mostly with financial institutions. Responsibilities included hiring, firing, and mentoring programmers, system administrators, system analysts, and interns, as well as requirements gathering from clients.

Reference: Koh Kok Wei · [kokwei@imocha.com.my](mailto:kokwei@imocha.com.my)

### Sony Manufacturing · 2005–2007 · Engineer

Developed Linux-based software required for manufacturing. Developed a tool used to trace products which helped cut down tracability time from 2 working days to about 4 hours. Tools of the trade included MFC, VB.NET, PHP, Postgres, GTK.

---