

## EDUCATION

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- **City University of Hong Kong** Kowloon Tong, Hong Kong  
*PhD in Information Systems* Aug. 2012 – April. 2016
- **Carnegie Mellon University** Pittsburgh, USA  
*MSc Information Networking; GCPA 3.67/4.0* Aug. 2009 – May. 2011
- **Babcock University** Ogun, Nigeria  
*BSc Computer Science; GCPA 4.64/5.0* Sep. 2004 – Jun. 2008

## EXPERIENCE

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- **IBM Research** Yorktown Heights, New York  
*Research Staff Member* April 2016 - April 2018
  - **AI for Interaction Design:**  
**Data2Vis:** Automatic Generation of Data Visualizations Using Sequence-to-Sequence Recurrent Neural Networks.
  - **Democratizing AI via Maker Kits: TJBot** - an [open source DIY kit](#) designed to help low to medium skill users prototype embodied AI applications.
  - **Inclusive AI Datasets:**  
**COCO-Africa** - An image dataset of common objects in the context of Africa. On-going work to explore Africa-centric AI experimentation.
- **IBM Research** Yorktown Heights, New York  
*Summer Research Fellow* May 2015 - Sep 2015
  - **Wearable in the Enterprise:** Designed a tool to infer user engagement metrics (typing activity, general motion, and pseudo location) within the context of meetings. Also conducted research to understand privacy concerns related to wearable use within Enterprises.
- **City University of Hong Kong** Kowloon Tong, Hong Kong  
*Research and Teaching Assistant* Aug 2012 - April 2016
  - **Research Assistant - Crowdsourcing:** Conducted research studies on motivations for developer participation in incentivized crowd sourcing contests, how contest parameters shape contribution behavior and provided a framework for understanding the problem solving paradigm within these contests.
  - **Teaching Assistant :** TA for graduate level courses - Advanced Business Software Construction, Analysis and Design of eCommerce Systems.
- **Denvycom** Lagos, Nigeria  
*Founder/Lead Developer* Sept 2011 - Sept 2012
  - **Startup:** Web and mobile startup company focused on building eCommerce and gaming products for Africa and emerging economies. I led client requirement specification, product design, development and prototyping. Managing a team of two developers throughout entire product lifecycle, from ideation to market deployment.
- **MIT Global Startup Labs (GSL)** Lagos, Nigeria  
*Lead Technical Instructor* Summer 2012
  - **GSL Summer 2012:** [GSL Summer 2012](#) lead technical instructor on web and mobile technologies. (Java, Android, Python, Django, Google App Engine).
- **Athens Information Technology** Athens, Greece  
*Research Assistant* May 2011, Sep 2011
  - **User Generated Games:** Research and prototype development in the areas of user generated mobile games, business applications of gaming, crowd sourcing models and game development engines/platforms.

## PUBLICATIONS

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### • Selected Journal Papers:

- Christian Wagner, **Victor Dibia** (2013), *Exploring the Effectiveness of Online Role-Play Gaming In the Acquisition of Complex and Tacit Knowledge*, **Issues in Information Systems**, 14, 2, pp. 367-374.
- Jeffrey Kephart, **Victor Dibia**, Jason Ellis, Biplav Srivastava, Kartik Talamadupula and Mishal Dholakia, "A Cognitive Assistant for Visualizing and Analyzing Exoplanets". To appear in **IEEE Internet Computing**.

### • Selected Conference Papers:

- **Victor Dibia**, Çağatay Demiralp. 2018. *Data2Vis: Automatic Generation of Data Visualizations Using Sequence-to-Sequence Recurrent Neural Networks*. Symposium on Visualization in Data Science (VDS) at **IEEE VIS 2018 [Best Paper Honorable Mention Award]** . <http://arxiv.org/abs/1804.03126>.
- Bahador Saket, Dominik Moritz, Halden Lin, **Victor Dibia**, Çağatay Demiralp, Jeffrey Heer 2018. *Beyond Heuristics: Learning Visualization Design*. Workshop on the Creation, Curation, Critique and Conditioning of Principles and Guidelines in Visualization at **IEEE VIS 2018** <http://arxiv.org/abs/1807.06641>.
- Jeffrey Kephart, **Victor Dibia**, Jason Ellis, Biplav Srivastava, Kartik Talamadupula and Mishal Dholakia, "A Cognitive Assistant for Visualizing and Analyzing Exoplanets", Thirty-Second AAAI Conference on Artificial Intelligence (AAAI) February 27, 2018 New Orleans, Louisiana, USA. [**Best Technical Demonstration Award**].
- **Victor Dibia**, Maryam Ashoori, Aaron Cox, Justin Weisz (2017), "TJBot: An Open Source DIY Cardboard Robot for Programming Cognitive Systems", Proceedings of the **2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems**.
- **Victor Dibia** (2016) "FOQUS: A Smartwatch Application for Individuals with ADHD and Mental Health Challenges" The 18th International ACM SIGACCESS Conference on Computers and Accessibility (**ASSETS**), Reno Nevada.
- **Victor Dibia**, Shari Trewin, Maryam Ashoori and Thomas Erickson (2015) "Exploring the Potential of Wearables to Support Employment for People with Mild Cognitive Impairment" , The 17th International ACM SIGACCESS Conference on Computers and Accessibility (**ASSETS**), Lisbon Portugal.
- Zhang Jun, **Victor Dibia**, Alexey Sodnomov, Paul Lowry (2015), "Understanding the disclosure of private healthcare information within online Quantified Self 2.0 platforms", 19th Pacific Asia Conference on Information Systems **PACIS 2015**, Marina Bay, Singapore.
- **Victor Dibia**, Christian Wagner (2015), "Success Within App Distribution Platforms: The Contribution Of App Diversity And App Cohesivity", Hawaii International Conference on System Sciences, Hawaii (**HICSS**) , USA.
- **Victor Dibia** (2014), "An Affective, Normative and Functional Approach to Designing User Experiences for Wearables", SIGHCI 2014, International Conference on Information Systems (**ICIS Workshop**), Association of Information Systems, Auckland, New Zealand.

### • Preprints:

- **Victor Dibia**, Maryam Ashoori, Aaron Cox, Justin Weisz. 2018. *Designing for Democratization: Introducing Novices to Artificial Intelligence Via Maker Kits* <https://arxiv.org/abs/1805.10723>.
- **Victor Dibia**. 2018 *Cognitive Translucence and Trust Intransitivity: Understanding the impact of Privacy Concerns on Wearable use in the Enterprise*.

### • Working Papers:

- **Victor Dibia** *COCO-Africa: A Curation Tool and Dataset of Common Objects in the Context of Africa*,
- **Victor Dibia** *Motivating Conversions from Interest to Contribution in Crowdsourcing Contests: An Empirical Study in the Software Industry*, Under Review
- **Victor Dibia** "Fair Play or Benefits? Predicting Future Participation (Sustainability) in Software Crowd Sourcing Contests", In Preparation for submission.
- **Victor Dibia** "The Fairness Roller Coaster: A deeper Look at the Phases of Software Crowdsourcing Contests , In preparation of submission .", In Preparation for submission.

## INVITED TALKS AND PRESENTATIONS

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### • Selected Talks:

- [Poster] **JupyterCon 2018**, Data2Vis: Automatic Generation of Data Visualizations Using Sequence-to-Sequence Recurrent Neural Networks.
- [Talk, Workshop] **Heidelberg Laureate Forum 2018** *Limitations of social network data — Fairness, accountability and transparency of AI*.
- [Talk, Workshop] **SXSW 2017**, *Embedding Intelligence in Everyday Objects using IBM Watson Services and TJBot*.
- [Talk, Workshop] **Web Summit 2017**, *Embedding Intelligence in Everyday Objects using IBM Watson Services and TJBot*.
- [Keynote] **Regional STEM Academy 2017** *Democratizing Cognitive Technology Innovation using Maker Kits*.

- [Talk] **Tizen Developer Summit 2014** *Best Practices in Designing Interfaces for Wearables*.
- [Talk] **Blackberry Live Conference 2013** *Built for mobile and innovation in emerging markets*.

## AWARDS AND HONORS

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### • Academic Honors

- [October 2018] Best Paper Award Honorable Mention (Data2Vis), IEEEVis Symposium on Visualization in Data Science (VDS).
- [April 2018] 1 of 200 young researchers invited to the 2018 Heidelberg Laureate Forum.
- [February 2018] Best Technical Demonstration at **AAAI 2018**.
- [October 2014] Pacific Telecommunications Council Young Scholar Program Award.
- [January 2014] Microsoft Imagine Cup Project Blueprint Finalist.
- [May 2012] Hong Kong PhD Fellowship Scheme.
- [August 2009] Carnegie Mellon University MSc Scholarship.
- [June 2008] Outstanding Graduating Student Award (Undergraduate).

### • Industry Honors

- [Feb 2018] Invited to the Tensorflow 2018 Summit.
- [December 2017] IBM Open Source Award.
- [October 2014] Tizen/Linux Foundation Travel Grant.
- [September 2014] Finalist, Samsung Gear Apps Challenge.
- [April 2013] Blackberry Live Speaking Alum and Travel Grant.
- [May 2012] Nokia Fellowship.
- [April 2012] Blackberry Conference Grant and App Award.
- [March 2012] Google HTML5 Code Contest Winner.

## PATENTS

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### • Filed Patents

- *Automated summarization based on physiological data*. US Patent App. 15/424,997 . Filed Feb 2017.
- *Using ultraviolet sensor data to determine a pseudo location of a user*. US Patent App. 15/447,953, US Patent App. 10/066,987. Filed March 2017.
- *A System and Method for Detecting Human Typing Activity for engagement assessment using Smartwatch Inertia + audio Sensors*. Docket No YOR820162818US01, Patent Id 94508574. Filed November. 2017.

## PROFESSIONAL SERVICES

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- **Invited Reviews:** ACM CHI {2018, 2019}; ACM CSCW {2018}; ACM IDC 2018; ACM DIS {2018}; ACM MobileHCI {2018}; IJHCI {2017}; ICIS {2013, 2014, 2015}; HICSS {2014, 2015}; PACIS {2014, 2015}; ECIS {2015}; AMCIS {2014, 2015}; PTC Meheroo Jusawalla Research Prize Award, {2016}.
- **Program Committee Member:** AAI {2019}; NIPS Black in AI Workshop {2018}, AfriCHI {2018}, ACM DIS {2018 AC}; .

## MEMBERSHIPS AND CERTIFICATIONS

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- **Membership:** Association of Computing Machinery (Member, ACM); Institute for Electrical Electronics Engineers (Senior Member, IEEE); New York Academy of Sciences (Professional Member, NYAS).
- **Certifications:** Deep Learning, specialization by deeplearning.ai on Coursera, (June 2018); Google Certified Professional - Data Engineer. (Nov 2017); Google Certified Professional - Cloud Architect (Oct 2017); Microsoft Certified Professional (Windows Server, Windows Network Infrastructure) (Jun 30, 2008 ); Cisco Certified Networks Associate (CCNA) (May 15 2008).
- **Online Courses, Summer School:** Deep Learning Indaba 2018, Deep Learning specialization by deeplearning.ai on Coursera, Pytorch Challenge Udacity.

## PROGRAMMING SKILLS

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- **Languages:** Java, C#, C, Python, R, HTML5, PHP, Nodejs, Javascript.
  - **Libraries/Platforms:** Tensorflow, Nodejs, Meteorjs, D3.js, Oblong Gspeak, Tizen Wearable, Windows Phone, Google Android, Balckberry 10, Pencil, Sketch.
  - **Selected Open Source Projects:** TJBot, Piwik (now Matomo) Analytics.
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