

# Curriculum Vitae

## KARTIKAY CHADHA

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### EDUCATION

Qualification	Board / University	Year	Scores
MSc. Medical Science	University of Toronto, Canada	2015- 2018	3.65 (4 Scale grade)
B.Tech Bioinformatics	Vellore Institute of Technology, Vellore	2011 - 2015	8.50 (10 Scale grade) Canada equivalent: 1st Div.
XIIth	Kendriya Vidyalaya ONGC, Dehradun [CBSE BOARD]	2010-2011	84.8%

### RESEARCH EXPERIENCES

- 1. Project Manager and Research Assistant (Computer Programmer and Data Analyst) at the Visual Analytics Lab in OCAD University, Canada under supervision of Dr. Martha Ladly to support Social Sciences and Humanities Research Council (SSHRC) funded project: *Creating a Visual Language of Marks.* (August 2018 – On going)**
- 2. Graduate Student Researcher at Centre for Addiction and Mental Health (CAMH), Canada under co-supervision of Dr. Jo Knight and Dr. Andrew Patterson (The Hospital for Sick Children, Toronto) to work in Human Statistical Genetics and Bioinformatics projects. (September 2015- September 2018)**

3. **Research Assistant at the Visual Analytics Lab in OCAD University, Canada under supervision of Dr. Martha Ladly to work on data analyses, visualization and software development. (November 2016 - August 2018)**
4. **Visiting Research Student at Data Science Institute in Lancaster University under supervision of Dr. Jo Knight to work on statistical analyses of data from the Gene Tissue Expression (GTEx) consortium. (September 2016 - January 2017)**
5. **Undergraduate Research Placement at Centre for Addiction and Mental Health (CAMH), Canada under supervision of Dr. Jo Knight to work on research project aiming to design an algorithm for the predication of mutation nature for Alzheimer's Diseases. (December 2014 - May 2015)**
6. **MITACS Globalink Summer Research Intern 2014 at OCAD University, Canada for a fully sponsored 12 weeks internship program under supervision of Dr. Martha Ladly to work on the project: *Postcard Memories*.**
7. **Research Internship at LAB P53 - Cancer Genomics Research Centre – (TBI) VIT University, under supervision of Mr. Abilesh M. Gunasekar to work on curating genetic data and assisting in day-to-day research activities. (March 2014 – April 2014)**

## CONFERENCES AND PUBLICATIONS

1. **Accepted for Oral Presentation;** Ladly, M., Keefer, K., **Chadha, K.**; *The Language of Marks: A Web-portal for Trans-Atlantic slave trade data collection, visualization and transcription*; Enslaved: Peoples of the Historic Slave Trade Conference, Michigan State University, East Lansing (Michigan, USA): March 8-9, 2019.
2. **Oral Presentation;** *Decoding Origins: Creating A Visual Language of Marks*, SSHRC funded Research project; Freedom Narratives Symposium, York University, Toronto (Ontario, Canada): December 07-08, 2018.
3. **Represented SSHRC Research work for OCAD University;** 61<sup>st</sup> Annual Meeting of the African Studies Association (ASA), Energies: Power, Creativity and Afro-Futures, Atlanta (Georgia, USA), 29 November – 1 December 2018.
4. **Paper Publication;** Ladly, M., Bakker, T., **Chadha, K.**, Farrelly, G., Micak, K., Penn, G., Rudzicz, F.; *Reality Recalled: Elders, Memory and VR*; IEEE VSMM 2017, 23rd International Conference on Virtual Systems and Multimedia, Dublin (Ireland): 31 October - 2 November 2017.
5. **Poster Presented;** **Chadha, K.**, Knight, J., Paterson, A.D.; *A Novel Method to identify Significant DNA motifs in the human genome associated with Alzheimer's disease*; European conference on computational Biology, The Hague (The Netherlands): September 03-07, 2016
6. **Poster Presented;** **Chadha, K.**, Gagliano, S., Rotenberg, D., Pipitone, J., Knight, J.; *Prioritization of risk and non-risk variants for Alzheimer's disease from Genome Wide Association Studies – Find My SEQ*; XXIII<sup>rd</sup> World Congress of Psychiatric Genetics, Toronto, ON (Canada): October 16-20, 2015
7. **Paper Publication;** Zai, G., Alberry, B., Arloth, J., Bánlaki, Z., Bares, C., Boot, E., Camilo, C., **Chadha, K.**, Chen, Q., Cole, C.B. and Cost, K.T., 2016. *Rapporteur summaries of plenary, symposia, and oral sessions* from the XXIII<sup>rd</sup> World Congress of Psychiatric Genetics Meeting in Toronto, Canada, 16-20 October 2015. Psychiatric Genetics.

8. **Paper Publication;** Wright, L., Ludlow, B.A., Jofre, A., Chen, C., Ladly, M., Rudzicz, F., **Chadha, K.;** *Postcard Memories: Analysis of preliminary usability studies of a mobile postcard application geared towards older adults with Early Stage Dementia of the Alzheimer's type*; The Qualitatives 2015: The 32nd Annual Qualitative Analysis Conference, Brescia College, Western University, London (Ontario, Canada): June 24-26, 2015.
9. **Paper Publication;** Rajkumar R., **Chadha K.;** *Continuing Medical Education for the Rural Public Health Centers*; International Journal of Scientific and Research Publications (IJSRP), Volume 3, Issue 6, June 2013 Edition

## SKILLS

**Bioinformatics software:** Rasmol, Pymol, YANA, BLAST, CLUSTAL W2, Multiple sequence alignment tools, Pair sequence Alignment tools. Some experience in SWISS PDB viewer, FASTA, Cytoscape, Modeler, Molecular Dynamics Simulations tools.

**Bioinformatics databases:** NCBI, EMBL, PDB, SWISSPROT, UNIPROT, DDBJ etc.

**Programming skills:** C, Java, Python, Perl, HTML5, CGI, CSS, PHP and web programming.

**Data mining and analysis tools:** SPSS and R.

**Operating Systems:** iOS, Linux and Windows.

**Wet lab skills:** Undergraduate level skills to perform DNA extraction, 1D Gel Electrophoresis, Chromatography, Spectrophotometry, Polymerase chain reaction (PCR) etc.

**Project Management:** Supervising and mentoring research undergraduate students, peer teaching, strong communication skills, maintaining domestic and international collaborations, presentation skills, team player, ability to work efficiently under high pressure and tight deadlines.

## AWARDS

1. 61<sup>st</sup> Annual Meeting of the ASA (African Studies Association), Energies: Power, Creativity and Afro-Futures, Atlanta (Georgia, USA) - BRAIN Alliance Travel Award, worth CAD\$1,000 (2018).
2. Social Sciences and Humanities Research Council (SSHRC), INSIGHT Grant, assisted Dr. Ladly and Dr. Keefer in application writing, valued over CAD\$85,000 (2018-2021).
3. Social Sciences and Humanities Research Council (SSHRC), INSIGHT Development Grant, assisted Dr. Keefer and Dr. Ladly in application writing, valued over CAD\$68,000 (2018-2020).
4. BRAIN Alliance Research Grant, assisted Dr. Ladly in application writing, valued over CAD\$25,000 (2018-2019).
5. Institute of Medical Science International Fee Subsidy Award (University of Toronto), valued at CAD\$6,000 (2016-2017).
6. Institute of Medical Science Open Fellowship Award (University of Toronto), valued at CAD\$5,000 (2016-2017).

7. European Conference on Computational Biology (ECCB2016), The Hague (Netherlands)- Travel Award, worth EUR 750 (2016).
8. World Congress of Psychiatric Genetics (WCPG), Toronto (Canada)- Early Career Investigator Award, worth CAD\$ 500 (2015).
9. Mitacs Globalink Graduate Fellowship (2015), worth CAD\$10,000 for one year of Master's and CAD\$10,000 per year up to 2 years of PhD.
10. University of Toronto, International Fee Deferral Award (2015-2016), worth of CAD\$ 6,000- (2015-2016).
11. VIT University- Merit holder– awarded with a scholarship worth of INR 10,000/- (2012-2013).
12. VIT University- Merit holder– awarded with a scholarship worth of INR 14,000/- (2011-2012).
13. Qualified Science quiz till city finals organized by T.I.M.E, India (2007).
14. Rastriya Indian Military College, Dehradun- Science Exhibition-October (2006).
15. Classmate young artist contest (District level- Dehradun) 2nd Runners up (2006).
16. National Children Science Congress- Science Exhibition (District Level- Dehradun) 2nd Runners Up (2005).

## CO-CURRICULAR ACTIVITIES

1. Mitacs Globalink Research Internship Mentor 2016-2018- Paid position to mentor international students for 4 months during the summer.
2. Secretary, Students association of Bio-Engineering Science and Technology, at VIT University (Session 2013-2014).
3. Sponsorship Committee coordinator- RIVIERA 2014 (an international cultural fest of VIT University).