

# Keheliya Galaba

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## PUBLICATIONS

### FULL PAPERS IN INTERNATIONAL JOURNALS

- [TSE18] [K. Gallaba](#) and S. McIntosh, “Use and Misuse of Continuous Integration Features: An Empirical Study of Projects that (mis)use Travis CI,” *IEEE Transactions on Software Engineering*, May 2018.

### FULL PAPERS IN INTERNATIONAL CONFERENCES

- [ASE18] [K. Gallaba](#), Christian Macho, Martin Pinzger, and Shane McIntosh, “Noise and Heterogeneity in Historical Build Data: An Empirical Study of Travis CI”, In *Proceedings of the International Conference on Automated Software Engineering (ASE)*, Sep 2018.
- [ICSME17] [K. Gallaba](#), Q. Hanam, A. Mesbah, and I. Beschastnikh, “Refactoring Asynchrony in JavaScript”, In *Proceedings of the International Conference on Software Maintenance and Evolution (ICSME)*, 353–363, Sep 2017.
- [ESEM15] [K. Gallaba](#), A. Mesbah, and I. Beschastnikh, “Don’t Call Us, We’ll Call You: Characterizing Callbacks in JavaScript”, In *Proceedings of the International Symposium on Empirical Software Engineering and Measurement (ESEM)*, pp. 247–256, Oct 2015. **Best Paper Award**

### SHORT PAPERS IN INTERNATIONAL CONFERENCES

- [MSR18a] N. Rabbani, M. S. Harvey, S. Saquif, [K. Gallaba](#), and S. McIntosh, “Revisiting “Programmers’ Build Errors” in the Visual Studio Context”, In *Proceedings of the 15th International Conference on Mining Software Repositories (MSR)*, *Mining challenge*, pp. To Appear, May 2018.
- [MSR18b] “Do Software Engineers Use Autocompletion Features Differently Than Other Developers?”, R. Amlekar, A. F. R. Gamboa, [K. Gallaba](#), and S. McIntosh In *Proceedings of the 15th International Conference on Mining Software Repositories (MSR)*, *Mining challenge*, pp. To Appear, May 2018.
- [MSR17a] M. Manglaviti, E. Coronado-Montoya, [K. Gallaba](#), and S. McIntosh, “An Empirical Study of the Personnel Overhead of Continuous Integration”, In *Proceedings of the 14th International Conference on Mining Software Repositories (MSR)*, *Mining challenge*, pp. 471–474, May 2017.
- [MSR17b] Y. Khan, Y. Gupta, [K. Gallaba](#), and S. McIntosh, “The Impact of the Adoption of Continuous Integration on Developer Attraction and Retention”, In *Proceedings of the 14th International Conference on Mining Software Repositories (MSR)*, *Mining challenge*, pp. 491–494, May 2017.

### FULL PAPERS IN INTERNATIONAL WORKSHOPS

- [CeBPM12] [K. Gallaba](#), U. Pavalanathan, I. Jayawardena, E. Sooriyabandara, V. Nanayakkara, “Levi — A Workflow Engine Using BPMN 2.0”, Workshop on Cloud-enabled Business Process Management (CeBPM 2012), Paphos, Cyprus, pp. 92–104 Nov 2012.

## AWARDS & RECOGNITION

- FRQNT Doctoral Research Award (Bourses de doctorat en recherche) May 2018  
Ranked #1 in the ICT group and obtained the competitive scholarship provided by Fonds de recherche du Québec – Nature et technologies (FRQNT).
- McGill Engineering Doctoral Award (MEDA) 2016 – 2019  
Full scholarship with stipend for PhD studies at McGill University.
- Best Full Paper Award Oct 2015  
Awarded at The ACM/IEEE International Symposium on Empirical Software Engineering and Measurement.
- ISERN Student Travel Grant Oct 2015  
Awarded by The International Software Engineering Research Network (ISERN) to attend ESEM ’15.

## ACADEMIC SERVICE

### ARTIFACT EVALUATION COMMITTEE MEMBER

- Int’l Conf. on Object-oriented Programming, Systems, Languages, and Applications (**OOPSLA**) 2017

### CO-REVIEWER

- Int’l Conf. on Mining Software Repositories (**MSR**) 2018
- Canadian Conf. on Electrical and Computer Engineering (**CCECE**) 2018

- Int'l Conf. on Software Maintenance and Evolution (**ICSME**) 2017
- Journal of Systems and Software (**JSS**) 2017

## RESEARCH EXPERIENCE

### Microsoft Research, Cambridge, UK

- PhD Research intern, Systems and Networking Group Jun 2018 – Sep 2018
  - Supervisors: Dr Katja Kevic and Dr Brendan Murphy
  - Focus: Continuous Deployment.

## MENTORING & TEACHING EXPERIENCE

### Undergraduate Students (Co-advised with S. McIntosh)

- Rahul Amlekar, Noam Rabbani, Mike Harvey, Sadnan Saquif, Andrés Felipe Rincón Gamboa Sep 2017 – Apr 2018
  - Co-authored Papers: MSR18a, MSR1b
- Marco Manglaviti, Eduardo Coronado-Montoya, Yash Gupta, Yusaira Khan Sep 2016 – Apr 2017
  - Co-authored Papers: MSR17a, MSR17b

### Teaching Assistant

- McGill University, Montréal, QC, Canada
  - ECSE321 Introduction to Software Engineering Fall 2017
- University of British Columbia, Vancouver, BC, Canada
  - EECE416 Software Testing and Analysis Winter II 2014
  - EECE310 Software Engineering Winter II 2013 & Winter I 2014

## INDUSTRIAL EXPERIENCE

### Fortinet Inc., Vancouver, BC, Canada

- **Software Development Engineer II**, Forticlient Team Feb 2016 – Aug 2016
  - Worked on the system for generating software vulnerability signatures, validating them, and delivering them to endpoint security software (Forticlient).

### WSO2 Inc., Colombo, Sri Lanka

- **Senior Software Engineer**, Integration Technologies Team Apr 2013 – Nov 2013
  - Development and support of open source middleware solutions for enterprise integration problems.
- **Software Engineer**, Integration Technologies Team Dec 2011 – Mar 2013
  - Worked with WSO2 Business Process Server, Enterprise Service Bus, Identity Server & Governance Registry.
  - Experience with WS-BPEL & other WS-\* standards, SOAP/REST web services.
  - XPATH, XSLT, Apache ODE and Eclipse plug-in development.

## SKILLS

Java, JavaScript, Node.js, Python, R, Git, SVN, Ant, Maven,  $\LaTeX$ .

## EDUCATION

### McGill University, Montréal, QC, Canada

- Ph.D. in Software Engineering Sep 2016 – Present
  - Thesis: Improving the Robustness and Efficiency of Continuous Integration and Continuous Deployment Tools
  - Adviser: Prof. Shane McIntosh
  - Publications: MSR17a, MSR17b, MSR18a, MSR18b, TSE18, ASE18.

### University of British Columbia, Vancouver, BC, Canada

- M.A.Sc. in Software Engineering Jan 2014 – Dec 2015
  - Thesis: Characterizing and refactoring asynchronous JavaScript callbacks
  - Advisers: Prof. Ali Mesbah and Prof. Ivan Beschastnikh
  - Publications: ESEM15, ICSME17.

### University of Moratuwa, Moratuwa, Sri Lanka

- B.Sc. (Hons.) in Computer Science and Engineering May 2007 – Nov 2011
  - Thesis: An analysis of BPMN 2.0 as a business process execution language
  - Advisers: Vishaka Nanayakkara and Dr Milinda Pathirage
  - Publications: CeBPM12.

[CV compiled on 2018-08-10]