

# Kenneth Lamar

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<https://KennethMLamar.com/>

## EDUCATION

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- 2018 - Present*    **PhD in Computer Science** at University of Central Florida  
*Advisor: Dr. Damian Dechev*  
*Expected graduation in Fall 2023*
- 2015 - 2017*    **BS in Computer Science** at University of Central Florida  
*Mathematics Minor*
- 2011 - 2015*    **Associate of Arts** at Daytona State College

## RESEARCH EXPERIENCE

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- 2018 - Present*    **Graduate Research Assistant** to Dr. Damian Dechev  
*AREA 67 research lab*  
*Research on high performance computing*

## PUBLICATIONS

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- November 2022*    **Metrics for Packing Efficiency and Fairness of HPC Cluster Batch Job Scheduling** in SBAC-PAD 2022 (*to appear*)
- September 2021*    **Backfilling HPC Jobs with a Multimodal-Aware Predictor** in CLUSTER 2021
- August 2021*    **PMap: A Non-volatile Lock-free Hash Map with Open Addressing** in NVMSA 2021
- February 2020*    **Lock-free transactional vector** in PMAM 2020
- November 2018*    **An Efficient Latch-free Database Index Based on Multi-dimensional Lists** in IPCCC 2018

## PRESENTATIONS

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- October 2021*    **A Persistent Hash Map for Graph Processing Workloads and a Methodology for Persistent Transactional Data Structures** at CppCon 2021

## TEACHING EXPERIENCE

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- Spring 2021*    **Graduate Teaching Assistant** COP 3402 - Systems Software  
*Instructor: Euripides Montagne*
- Spring 2020*    **Graduate Teaching Assistant** COP 4520 - Multicore Programming  
*Instructor: Damian Dechev*
- Fall 2019*    **Graduate Teaching Assistant** CAP 4102 - Web Design and User Experience

*Instructor: Reza Aria*

*Spring 2019*      **Graduate Teaching Assistant** CIS 3360 - Security in Computing  
*Instructor: Joshua Lazar*

*Fall 2018*      **Graduate Teaching Assistant** CIS 3360 - Security in Computing  
*Instructor: Michael McAlpin*

## WORK EXPERIENCE

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*2017*      **Applications Developer Internship** at MVP Sports Clubs

*2014*      **Earth Team Volunteer** at US National Resources Conservation Service

## HONORS AND AWARDS

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*2011-2015*      **President's List** Daytona State College  
*Made the President's List seven times*

*2011*      **General Research Award** Daytona State College Awards Convocation  
*First place award, general research paper*

## SKILLS AND QUALIFICATIONS

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### Programming Languages

C++, C, Python, Java, JavaScript, C#, SQL

### Technologies and Environments

High performance computing, Data structures, Concurrent programming, Persistent memory, Scheduling, Transactions, Git, Intel Pin, SLURM, LaTeX, ASP.NET, Eleventy, Unity, Unreal Engine, Android application development, iOS application development, Linux kernel modules, Node.js, Arduino

## REFERENCES

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Available upon request