Prashant Pandey

72 Central Campus Drive Salt Lake City, UT - 84112 Wobsite Google Scholar Github Wobsite Coogle Scholar Github Work EXPERIENCE University of Utah, Salt Lake City, UT Assistant Professor VMware Research, Palo Alto, CA Research Scientist TIBCO Inc., Pune, India Software Developer, Cloud Platform EDUCATION UC Borkeloey/Berkeley Lab, Berkeley, CA Postactorul Research Pelloue, Computational Research Division Advisors: Prof. Kathy Yelke & Prof. Aydin Bulue Carnegie Mellon University, Pittsburgh, PA Postactorul Associate, School of Computational Research Division Advisors: Prof. Kathy Yelke & Prof. Aydin Bulue Carnegie Mellon University, Pittsburgh, PA Postactorul Associate, School of Computer Science Advisors: Prof. Kathy Yelke & Prof. Rob Johnson University of Pune, Pune, India Bachelor of Engineering (BE), Information Technology INTERNBUOS Google, Manhattan, NY Research Intern, George Spanner Google, Kirkland, WA Research Intern, George Spanner Google, Kirkland, WA Research Intern, George Could Infrastructure Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Intel Labs, Portland, OR Research Intern, Scenuty and Privacy Lab Research Intern, Scenuty and Privacy Lab Research Intern, Scenuty and Privacy Lab Research Intern	Cover on Indopyration	
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Funding	RECOMB 2018, ESA 2018, Dagstuhl 2019	
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NSF: CAREER: Practical Adaptive Filters and Applications

Utah portion: \$607,746

June 2024

One Utah Data Science Hub Seed Award

Utah portion: \$50,000

DOE: Exascle Computing Project: High Performance GPU Filters Role: Utah PI (Joint with UC Berkeley/Lawrence Berkeley National Lab)

Utah portion: \$250,000

Conference Publications

Rob Johnson

Beyond Bloom: A Tutorial on Future Feature-Rich Filters

SIGMOD 2024

March 2024

October 2022

 $\bf Prashant \ Pandey, \ Martin \ Farach-Colton, \ Niv \ Dayan, \ Huanchen \ Zhang$

IONIA: Efficient Replication for SSD-based Write-Optimized KV Stores

FAST 2024

Yi Xu, Henry Zhu, Prashant Pandey, Alex Conway, Rob Johnson, Ramnatthan Alagappan, Aishwarya Ganesan

Gallatin: A vEB Tree-Based GPU Memory Manager

PPOPP 2024

Hunter McCoy, Prashant Pandey

BP-tree: Overcoming the Point-Range Operation Tradeoff for In-Memory B-trees Helen Xu, Amanda Li, Brian Wheatman, Manoj Marneni, Prashant Pandey VLDB 2023

IcebergHT: High Performance Hash Tables Through Stability and Low Associativity SIGMOD 2023 Prashant Pandey, Michael Bender, Alex Conway, Martin Farach-Colton, William Kuszmaul, Guido Tagliavini,

High-Performance Filters for GPUs

PPOPP 2023

Hunter McCoy, Steven Hofmeyr, Katherine Yelick, Prashant Pandey

Communication Optimization for Distributed Execution of Graph Neural Networks IPDPS 2023 Süreyya Emre Kurt, Jinghua Yan, Aravind Sukumaran-Rajam, Prashant Pandey, P. Sadayappan

Singleton Sieving: Overcoming the Memory/Speed Trade-Off in Exascale k-mer Analysis

ACDA 2023

Hunter McCoy, Steven Hofmeyr, Katherine Yelick, Prashant Pandey

Distance and Time Sensitive Filters for Similarity Search in Trajectory Datasets Madhav Narayan Bhat, Paul Cesaretti, Mayank Goswami, Prashant Pandey

APOCS~2023

Terrace: A Hierarchical Graph Container for Skewed Dynamic Graphs

SIGMOD 2021

Prashant Pandey, Brian Wheatman, Helen Xu, Aydin Buluc

Vector Quotient Filters: Overcoming the Time/Space Trade-Off in Filter Design SIGMOD 2021 Prashant Pandey, Alex Conway, Joe Durie, Michael Bender, Martin Farach-Colton, Rob Johnson

Distributed-Memory k-mer Counting on GPUs

IPDPS 2021

Israt Nisa, Prashant Pandey, Marquita Ellis, Leonid Oliker, Aydin Buluc, Katherine Yelick

Timely Reporting of Heavy Hitters using External Memory

SIGMOD 2020

Prashant Pandey, Shikha Singh, Michael A. Bender, Jonathan W. Berry, Martin Farach-Colton, Rob Johnson, Thomas M. Kroeger, Cynthia A. Phillips

An Efficient, Scalable, and Exact Representation of High-Dimensional Color Information Enabled Using de Bruijn Graph Search $RECOMB\ 2019$

Fatemeh Almodaresi, **Prashant Pandey**, Michael Ferdman, Rob Johnson, Rob Patro

Locality Sensitive Hashing for the Edit Distance

ISMB 2019

Guillaume Marçais, Dan DeBlasio, Prashant Pandey, and Carl Kingsford

*Small Refinements to the DAM Can Have Big Consequences for Data-Structure Design

Author names in alphabetical order. I am lead author.

Michael A. Bender, Alex Conway, Martin Farach-Colton, William Jannen, Yizheng Jiao, Rob Johnson, Eric Knorr, Sara McAllister, Nirjhar Mukherjee, Prashant Pandey, Donald E. Porter, Jun Yuan, Yang Zhan

*Buffered Count-Min Sketch on SSD: Theory and Experiments

ESA 2018

Mayank Goswami, Dzejla Medjedovic, Emina Mekic, Prashant Pandey

Mantis: A Fast, Small, and Exact Large-Scale Sequence-Search Index

RECOMB 2018

Prashant Pandey, Fatemeh Almodaresi, Michael A. Bender, Michael Ferdman, Rob Johnson, and Rob Patro

deBGR: An Efficient and Near-Exact Representation of the Weighted de Bruijn Graph

ISMB 2017

Prashant Pandey, Michael A. Bender, Rob Johnson, and Rob Patro

Rainbowfish: A Succinct Colored de Bruijn Graph Representation

WABI 2017

Fatemeh Almodaresi, **Prashant Pandey**, and Rob Patro

A General-Purpose Counting Filter: Making Every Bit Count

SIGMOD 2017

Prashant Pandey, Michael A. Bender, Rob Johnson, and Rob Patro [Finalist: Most Reproducible Paper]

Optimizing Every Operation in a Write-Optimized File System

FAST 2016

Jun Yuan, Yang Zhan, William Jannen, Prashant Pandey, Amogh Akshintala, Kanchan Chandnani, Pooja Deo, Zardosht Kasheff, Michael Bender, Martin Farach-Colton, Rob Johnson, Bradley C. Kuszmaul, and Donald E. Porter [Best Paper Award]

BetrFS: A Right-Optimized Write-Optimized File System

FAST 2015

William Jannen, Jun Yuan, Yang Zhan, Amogh Akshintala, John Esmet, Yizheng Jiao, Ankur Mittal, Prashant Pandey, Phaneendra Reddy, Leif Walsh, Michael A. Bender, Martin Farach-Colton, Rob Johnson, Bradley C. Kuszmaul, and Donald E. Porter [Runner up to Best Paper]

 $\underline{\text{Underlined}}$ - Utah student advisee.

JOURNAL PUBLICATIONS

Using Advanced Data Structures to Enable Responsive Security Monitoring Cluster Computing 2022 Janet Vorobyeva, Daniel R. Delayo, Michael A. Bender, Martin Farach-Colton, Prashant Pandey, Cynthia A. Phillips, Shikha Singh, Eric D. Thomas, Thomas M. Kroeger

An Incrementally-Updatable and Scalable System for Large-Scale Sequence Search using LSM-Trees BIOINFORMATICS 2022

Fatemeh Almodaresi, Jamshed Khan, Sergey Madaminov, Michael Ferdman, Rob Johnson, Prashant Pandey, and Rob Patro

VariantStore: an index for large-scale genomic variant search

Genome Biology 2021

Prashant Pandey, Yinjie Gao, Carl Kingsford

*External-Memory Dictionaries in the Affine and PDAM Models

TOPC 2021

Michael A. Bender, Alex Conway, Martin Farach-Colton, William Jannen, Yizheng Jiao, Rob Johnson, Eric Knorr, Sara McAllister, Nirjhar Mukherjee, Prashant Pandey, Donald E. Porter, Jun Yuan, Yang Zhan

Timely Reporting of Heavy Hitters using External Memory

TODS 2021

Shikha Singh, Prashant Pandey, Michael A. Bender, Jonathan W. Berry, Martin Farach-Colton, Rob Johnson, Thomas M. Kroeger, Cynthia A. Phillips

An Efficient, Scalable, and Exact Representation of High-Dimensional Color Information Enabled Using de Bruijn Graph Search JCB 2020

Fatemeh Almodaresi, Prashant Pandey, Michael Ferdman, Rob Johnson, Rob Patro

Locality Sensitive Hashing for the Edit Distance

BIOINFORMATICS 2019

Guillaume Marçais, Dan DeBlasio, Prashant Pandey, and Carl Kingsford

Mantis: A Fast, Small, and Exact Large-Scale Sequence-Search Index

Cell Systems 2018

Prashant Pandey, Fatemeh Almodaresi, Michael A. Bender, Michael Ferdman, Rob Johnson, and Rob Patro

deBGR: An Efficient and Near-Exact Representation of the Weighted de Bruijn Graph

BIOINFORMATICS 2017

Prashant Pandey, Michael A. Bender, Rob Johnson, and Rob Patro

Squeakr: An Exact and Approximate k-mer Counting System Prashant Pandey, Michael A. Bender, Rob Johnson, and Rob Patro

BIOINFORMATICS 2017

Writes Wrought Right, and Other Adventures in File System Optimization

TOS 2016

Jun Yuan, Yang Zhan, William Jannen, **Prashant Pandey**, Amogh Akshintala, Kanchan Chandnani, Pooja Deo, Zardosht Kasheff, Michael Bender, Martin Farach-Colton, Rob Johnson, Bradley C. Kuszmaul, and Donald E. Porter

$B\epsilon trFS$: Write-Optimization in a Kernel File System

TOS 2015

William Jannen, Jun Yuan, Yang Zhan, Amogh Akshintala, John Esmet, Yizheng Jiao, Ankur Mittal, **Prashant Pandey**, Phaneendra Reddy, Leif Walsh, Michael A. Bender, Martin Farach-Colton, Rob Johnson, Bradley C. Kuszmaul, and Donald E. Porter

Patents

Instructions that Facilitate the Implementation of the Fork System Call in Processes using Software Guard Extensions

October 2018

https://patents.google.com/patent/US10089447B2/en

Prashant Pandey, Mona Vij, Somnath Chakrabarti, Krystof C. Zmudzinski

Apparatus and Method For Implementing a Forked System Call in a System with a Protected Region

January 2018

https://patents.google.com/patent/US9870467B2/en

Prashant Pandey, Mona Vij, Somnath Chakrabarti, Krystof C. Zmudzinski

INVITED TALKS

Designing High-Performance In-Memory Indexes

February 2024

Northwest Database Society Annual Meeting, Google Kirkland

Designing High-Performance In-Memory Indexes

October 2023

Database Seminar Series, Georgia Tech

IcebergHT: High Performance Hash Tables Through Stability and Low Associativity February 2023 "From Big Data Theory to Big Data Practice", Dagstuhl, Germany

High-Performance and Feature Rich GPU Filters For Exascale Computing "Joint PNNL-Utah Weekly HPC Seminar"

September 2022

Scalability Challenges in Large-Scale Sequence Search

"Utah Center of Data Science (UCDS) Seminar Series"

Vector Quotient Filters: Overcoming the Time/Space Trade-Off in Filter Design

September 2022

September 2022

"Applied and Computational Discrete Algorithms (ACDA)", Aussois, France

Time to Change Your Filter

February 2022

Boston University

Locality Sensitive Hashing for the Edit Distance

February 2021

Northeastern University

MetaGNN: Binning Metagenomic Contigs using GNN and Taxonomic Labelling

July 2020

"Workshop on DL for (Meta) Genomic Sequence Data", Lawrence Berkeley National Lab

Timely Reporting of Heavy Hitters using External Memory

October 2019

• Ang Li MS CS (Independent Study)

• Benwei Shi Ph.D. CS (Co-advise with Prof. Jeff)

• Susmitha Raja MS CS (Research Assistant)

• Jinghua Yan Ph.D. CS (Co-advise with Prof. Saday)

Timely Reporting of Heavy Hitters using External Memory IT University of Copenhagen, Copenhagen, Denmark	September 2019
Timely Reporting of Heavy Hitters using External Memory "Theoretical Foundations of Storage Systems", Dagstuhl, Germany	March 2019
Scheduling Problems in Write-Optimized Key-Value Stores "New Challenges in Scheduling Theory", Aussois, France	March 2018
Compact Representation of Annotated de Bruijn Graphs Berkeley Lab, Berkeley CA	January 2018
deBGR: An Efficient Representation of the Weighted de Bruijn Graph Google Research, NY VMware Research, Palo Alto CA	Spetember 2017
Intel Software Guard Extensions (SGX) Sandia National Laboratories, Livermore CA	August 2015
CONFERENCE TALKS IcebergHT: High Performance Hash Tables Through Stability and Low Associatele, USA	ciativity SIGMOD 2023
Terrace: A Hierarchical Graph Container for Skewed Dynamic Graphs Xi 'an, $China$	SIGMOD 2021
Vector Quotient Filters: Overcoming the Time/Space Trade-Off in Filter Des Xi 'an, $China$	sign SIGMOD 2021
VariantStore: A Space-Efficient and Fast Variant Search Index Virtual conference	ISMB 2020
Timely Reporting of Heavy Hitters using External Memory $Portland, OR$	SIGMOD 2020
Small Refinements to the DAM Can Have Big Consequences for Data-Struct $\it Phoenix,AZ$	ture Design SPAA 2019
Buffered Count-Min Sketch on SSD: Theory and Experiments <i>Helsinki</i> , <i>Finland</i>	ESA 2018
Mantis: A Fast, Small, and Exact Large-Scale Sequence-Search Index Paris, France	RECOMB 2018
deBGR: An Efficient Representation of the Weighted de Bruijn Graph Prague, Czech Republic	ISMB 2017
A General-Purpose Counting Filter: Making Every Bit Count $Chicago,\ IL$	SIGMOD 2017
STUDENTS	
 Advising Hunter McCoy Ph.D. CS Yuvraj Chaesetti Ph.D. CS Aaditya Rangarajan MS CS (Independent Study) 	Started Fall 2022 Started Fall 2022 Started Spring 2024

Started Spring 2024

Started Fall 2023

 $Spring\ 2023-Fall\ 2023$

 $Fall\ 2022-Summer\ 2023$

• Medha Kalkur MS CS (Research Assistant)	Fall 2022 – Summer 2023
• Manoj Marneni MS CS (Research Assistant)	Fall 2022 - Spring 2023
• Pranjal Patil MS CS (Independent Study)	Spring 2023
• Alex Tokita BS CS (UROP Scholar)	Fall 2022
• Committee Member	
• Ankit Bhardwaj	Ph.D. CS
Sayef Azad Sakin	Ph.D. CS
Mahesh Lakshminarasimhan	Ph.D. CS
AnanthKrishna Prasad	Ph.D. CS
Amit Samanta	Ph.D. CS
• LeAnn Lindsey	Ph.D. CS
• Chris Harker	Ph.D. CS
• Todd Thornley	M.S CS
Professional Service	
• Workshop Organiser:	
Workshop on Filter Data Structures SPAA (FCRC 2023)	2023
• Program Committee:	
SIGMOD, VLDB, EDBT	2025
SIGMOD, VLDB, PPOPP, IPDPS, IEEE BigData	$\frac{2024}{2024}$
VLDB, SIGMOD ARC, SPAA, IPDPS, ESA, IEEE BigData	2023
IEEE BigData, ACM BCB, APOCS, IPDPS	$\frac{2020}{2022}$
ACDA, RECOMB-Seq, IPDPS, ALENEX	2021
EURO-PAR, RECOMB-Seq	2020
ESA	2019
• Journals:	2013
Transactions on Parallel and Distributed Systems (TPDS)	2020
Transactions on Databases (TODS)	2018
Journal of Experimental Algorithms (JEA)	2019
IEEE Access	2019, 2021
Oxford BIOINFORMATICS	2018, 2019, 2020
Journal of Computational Biology (JCB)	2021, 2022, 2023
Transactions on Knowledge and Data Engineering (TKDE)	2021, 2022, 2023
• Subreviewer:	2021, 2022
SODA	2024
SC, SODA	2024
FAST	2022
ISMB, STACS	2021
RECOMB	2020
WABI, CIAC	2019
• Session chair: ALENEX 2021	2019
• Judge: Poster session RECOMB 2019	
Department Service	
	Cnvin - 2022
• Director: Data Science Graduate Certificate Program	Spring 2023 –
• Organizer: Utah Center for Data Science Lecture Series	Fall 2023 –
https://datascience.utah.edu/seminar.html	Fall 2025 –
• Organiser: KSoC Annual Sports Event https://users.cs.utah.edu/~pandey/ksocsportsevent/2023/	Cnvin 2022
	Spring 2023 –
Graduate Admissions Committee Organizar KSoC Colleguium Sories	2023, 2024 Fall 2022
Organizer KSoC Colloquium Series	Fall 2022 –
TEACHING	
Assistant Professor, School of Computing, University of Utah	T. 11 0000
• CS 6530: Adv. Database Systems	Fall 2023
• CS 6968/5968: Data Str & Alg for Scalable Comp	Spring 2023
• CS 6530: Adv. Database Systems	Fall 2022

TA EXPERIENCE

Teaching Assistant, CS Dept, Stony Brook University

CSE 548: Analysis of Algorithms
 CSE 535: Asynchronous Systems
 CSE 110: Introduction to Computer Science (Advanced Java)
 Spring 2014, Fall 2023

PRESS ARTICLES ON RESEARCH

Our IcebergHT paper from SIGMOD 2023 featured in Quanta Magazine February 2024

Link: https://shorturl.at/dyAYZ

A general purpose counting filter: making every bit count. The Morning Paper.

August 2017

Link: https://goo.gl/nReGcF

Scaling Computational Biology at VMware. (Link: https://shorturl.at/lpLR6)

April 2018
Finding a Needle in a Field of Haystacks. Cell Systems publishes research on Mantis

July 2018

Link: https://goo.gl/LJopwR