## CURRICULUM VITAE

#### RASMUS KYNG

#### NOVEMBER 2024

EMAIL: kyng@inf.ethz.ch CONTACT

WEB: https://kyng.inf.ethz.ch and http://rasmuskyng.com

ACADEMIC POSITIONS

ETH Zurich, Department of Computer Science

Assistant Professor, tenure track

Zurich, Switzerland Fall 2019-present

Cambridge, U.S.A.

Harvard University, Theory of Computation Group at SEAS

Postdoctoral Fellow

Spring 2018–Spring 2019

UC Berkeley, Simons Institute for Theoretical Computer Science

Berkeley, U.S.A.

Postdoctoral Research Fellow

Fall 2017

EDUCATION

Yale University, Department of Computer Science

New Haven, U.S.A. 2011 - 2017

Ph.D.

University of Cambridge, Department of Computer Science Cambridge, United Kingdom

BA Hons Computer Science, First Class Honors

2008 - 2011

Risskov Gymnasium, upper secondary school

Aarhus, Denmark

Highest GPA in national exams

2005-2008

ICBS Frontiers of Science Award: Best papers in theoretical computer science '18-'22 2023 AWARDS

The FOCS Best Paper Award

2022 2017

The FOCS Machtey Award for Best Student Paper Simons Institute Postdoctoral Research Fellowship

2017

Swiss National Science Foundation Starting Grant GRANTS

2024-2030

1.8 mio. CHF, grant no. TMSGI2 218022

Title: A New Paradigm for Flow and Cut Algorithms

2021-2025

Swiss National Science Foundation Project Grant 682 kCHF, grant no. 200021 204787

Title: Algorithms and Complexity for High-Accuracy Flows and Convex Optimization

NEWS

COVERAGE

Quanta Magazine: "Researchers Achieve 'Absurdly Fast' Algorithm for Network Flow" CACM: "Maximum Flow Through a Network: A Storied Problem and a Groundbreaking Solution"

ETH News: "Researchers at ETH Zurich develop the fastest possible flow algorithm"

The Simons Institute Newsletter: "Theory at the Institute and Beyond"

CURRENT

Maximilian Probst Gutenberg, Oberassistent

Fall 2020-present

Ming Ding, Ph.D. candidate GROUP

Fall 2020–Spring 2025 (expected)

Federico Soldà, Ph.D. candidate Simon Meierhans, Ph.D. candidate Fall 2020–Fall 2025 (expected) Fall 2021-present

Aurelio Sulser, Ph.D. candidate Tianyi Zhang, postdoc

Fall 2023-present Fall 2024-present

Wuwei Yuan, direct doctorate student

Fall 2024-present

GROUP ALUMNI Abdolahad Zehmankan, postdoc  $\rightarrow$  APTT at ANU

Spring 2020–Fall 2020

Silvia Casacuberta, predoc intern  $\rightarrow$  Oxford MSc, Stanford PhD Pratyai Mazumder, predoc intern  $\rightarrow$  ETH PhD

Summer 2020–Fall 2020 Fall 2023–Spring 2024

ITS JUNIOR FELLOW

Deeksha Adil, postdoc Weiming Feng, postdoc  $\rightarrow$  APTT HKU

Spring 2023–present Spring 2024–Fall 2024

MENTEES

SELECTED GROUP AWARDS Simon Meierhans: ETH Medal for MSc thesis, Google PhD Fellowship 2024 Silvia Casacuberta: CRA Outstanding Undergraduate Research Award.

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# PUBLICATIONS & MANUSCRIPTS

As is customary in the field of theoretical computer science, authors are listed alphabetically by surname.

In theoretical computer science, the most prestigious publication venues are peer-reviewed conference proceedings, and among these, the top conferences are FOCS & STOC, with SODA following as the top sub-field conference for algorithms research. ICALP is the premier European conference for algorithms. Journal publication is sometimes used to publish extended versions of results. The top journal of the field is JACM followed closely by SICOMP.

For each publication, I am highlighting myself and members of my group (at the time of writing the paper) in **bold**. This includes ETH master and bachelor students supervised by my group.

## REFEREED CONFERENCE PUBLICATIONS

- K1 Almost-Linear Time Algorithms for Decremental Graphs:
   Min-Cost Flow and More via Duality
   J. Brand, L. Chen, R. Kyng, Y. Liu, S. Meierhans, M. Probst, and S. Sachdeva IEEE Symposium on Foundations of Computer Science (FOCS) 2024

   Featured in ETH News
- K2 Optimal Electrical Oblivious Routing on Expanders
  C. Florescu, R. Kyng, M. Probst, and S. Sachdeva
  EATCS International Colloquium on Automata,
  Languages and Programming (ICALP) 2024
- K3 A Framework for Parallelizing Approximate Gaussian Elimination Y. Baumann and R. Kyng

ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) 2024

- K4 Almost-Linear Time Algorithms for Incremental Graphs:
   Cycle Detection, SCCs, s-t Shortest Path, and Minimum-Cost Flow
   L. Chen, R. Kyng, Y. Liu, S. Meierhans, and M. Probst
   ACM SIGACT Symposium on Theory of Computing (STOC) 2024
   Featured in the Simons Institute Newsletter and ETH News
- K5 A Dynamic Shortest Paths Toolbox:
   Low-Congestion Vertex Sparsifiers and their Applications
   R. Kyng, S. Meierhans, and M. Probst
   ACM SIGACT Symposium on Theory of Computing (STOC) 2024

- K6 Incremental Approximate Maximum Flow on Undirected Graphs in Subpolynomial Update Time
  - J. Brand, L. Chen, **R. Kyng**, Y. Liu, R. Peng, **M. Probst**, S. Sachdeva, and A. Sidford ACM-SIAM Symposium on Discrete Algorithms (SODA) 2024
- K7 A Deterministic Almost-Linear Time Algorithm for Minimum-Cost Flow
  J. Brand, L. Chen, R. Kyng, Y. Liu, R. Peng, M. Probst, S. Sachdeva, and A. Sidford
  IEEE Symposium on Foundations of Computer Science (FOCS) 2023
- K8 Maintaining Expander Decompositions via Sparse Cuts
  Y. Hua, R. Kyng, M. Probst, and Z. Wu.
  ACM-SIAM Symposium on Discrete Algorithms (SODA) 2023
- K9 A Simple Framework for Finding Balanced Sparse Cuts via APSP
   L. Chen, R. Kyng, M. Probst, and S. Sachdeva.
   SIAM Symposium on Simplicity in Algorithms (SOSA) 2023
- K10 Maximum Flow and Minimum-Cost Flow in Almost-Linear Time
  L. Chen, R. Kyng, Y. Liu, R. Peng, M. Probst, and S. Sachdeva
  IEEE Symposium on Foundations of Computer Science (FOCS) 2022
  Won the FOCS Best Paper Award and ICBS Best Paper 2018-2022 Award
  Featured in Quanta Magazine, CACM, the Simons Institute Newsletter, and ETH News
  Invited to Highlights of Algorithms (HALG) 2023
- K11 Derandomizing Random Walks in Almost-Linear Time
   R. Kyng, S. Meierhans, and M. Probst
   IEEE Symposium on Foundations of Computer Science (FOCS) 2022
- K12 Scalar and Matrix Chernoff Bounds from ℓ<sub>∞</sub>-Independence
   T. Kaufman, R. Kyng, and F. Solda
   ACM-SIAM Symposium on Discrete Algorithms (SODA) 2022
- K13 Incremental SSSP for Sparse Digraphs Beyond the Hopset Barrier
   R. Kyng, S. Meierhans, and M. Probst
   ACM-SIAM Symposium on Discrete Algorithms (SODA) 2022
- K14 Two-Commodity Flow is as Hard as Linear Programming
   M. Ding, R. Kyng, and P. Zhang
   EATCS International Colloquium on Automata,
   Languages and Programming (ICALP) 2022
- K15 Hardness Results for Laplacians of Simplicial Complexes via Sparse-Linear Equation Complete Gadgets
   M. Ding, R. Kyng, M. Probst, and P. Zhang
   EATCS International Colloquium on Automata,
   Languages and Programming (ICALP) 2022
- K16 Faster Sparse Matrix Inversion and Rank Computation in Finite Fields
   S. Casacuberta and R. Kyng
   Innovations in Theoretical Computer Science (ITCS) 2022
- K17 On the Oracle Complexity of Higher-Order Smooth Non-Convex Finite-Sum Optimization N. Emmenegger, R. Kyng, and A. Zehmakan International Conference on Artificial Intelligence and Statistics (AISTATS) 2022
- K18 Almost-linear-time Weighted ℓ<sub>p</sub>-norm Solvers in Slightly Dense Graphs via Sparsification D. Adil, B. Bullins, R. Kyng, and S. Sachdeva EATCS International Colloquium on Automata, Languages and Programming (ICALP) 2021
- K19 Packing LPs are Hard to Solve Accurately, Assuming Linear Equations are Hard
   R. Kyng, D. Wang, and P. Zhang
   ACM-SIAM Symposium on Discrete Algorithms (SODA) 2020
- K20 Flows in Almost Linear Time via Adaptive Preconditioning
   R. Kyng, R. Peng, S. Sachdeva, and D. Wang
   ACM SIGACT Symposium on Theory of Computing (STOC) 2019

- K21 Iterative Refinement for  $\ell_p$ -norm Regression
  - R. Kyng, D. Adil, R. Peng, and S. Sachdeva ACM-SIAM Symposium on Discrete Algorithms (SODA) 2019
- K22 A Matrix Chernoff Bound for Strongly Rayleigh Distributions and Spectral Sparsifiers from a few Random Spanning Trees
  - R. Kyng and Z. Song

IEEE Symposium on Foundations of Computer Science (FOCS) 2018

- K23 Solving Directed Laplacians in Nearly Linear Time through Sparse LU Factorizations
   M.B. Cohen, J. Kelner, R. Kyng, J. Peebles, R. Peng, A.B. Rao, and A. Sidford
   IEEE Symposium on Foundations of Computer Science (FOCS) 2018
- K24 Incomplete Nested Dissection

R. Kyng, R. Peng, R. Schwieterman, and P. Zhang ACM SIGACT Symposium on Theory of Computing (STOC) 2018

- K25 Hardness Results for Structured Linear Systems
  - R. Kyng and P. Zhang

IEEE Symposium on Foundations of Computer Science (FOCS) 2017 Won the FOCS Machtey Award for Best Student Paper

- K26 Sampling Random Spanning Trees Faster than Matrix Multiplication
   D. Durfee, R. Kyng, J. Peebles, A.B. Rao, and S. Sachdeva
   ACM SIGACT Symposium on Theory of Computing (STOC) 2017
- K27 A Framework for Analyzing Resparsification Algorithms
   R. Kyng, J. Pachocki, R. Peng, and S. Sachdeva
   ACM-SIAM Symposium on Discrete Algorithms (SODA) 2017
- K28 Approximate Gaussian Elimination for Laplacians: Fast, Sparse, and Simple
   R. Kyng and S. Sachdeva
   IEEE Symposium on Foundations of Computer Science (FOCS) 2016
   Invited to Highlights of Algorithms (HALG) 2017
- K29 Sparsified Cholesky and Multigrid Solvers for Connection Laplacians
   R. Kyng, Y.T. Lee, R. Peng, S. Sachdeva, and D.A. Spielman
   ACM SIGACT Symposium on Theory of Computing (STOC) 2016
- K30 Fast, Provable Algorithms for Isotonic Regression in all  $\ell_p$ -norms **R. Kyng**, A. Rao, and S. Sachdeva. Conference and Workshop on Neural Information Processing Systems (NeurIPS) 2015
- K31 Algorithms for Lipschitz Learning on Graphs
   R. Kyng, A. Rao, S. Sachdeva, and D.A. Spielman
   Conference on Learning Theory (COLT) 2015
- K32 Solving SDD Linear Systems in Nearly m log 1/2 n Time
   M.B. Cohen, R. Kyng, G.L. Miller, J.W. Pachocki, R. Peng, A. Rao, and S.C. Xu
   ACM SIGACT Symposium on Theory of Computing (STOC) 2015

#### REFEREED JOURNAL PUBLICATIONS

- K33 Fast Algorithms for ℓ<sub>p</sub>-Regression
   D. Adil, R. Kyng, R. Peng, and S. Sachdeva
   Journal of the ACM (JACM), 2024, issue forthcoming
- K34 Four Deviations Suffice for Rank 1 Matrices R. Kyng, K. Luh, and Z. Song

Advances in Mathematics, Volume 375, 2 December 2020

- K35 Hardness Results for Structured Linear Systems
  - R. Kyng and Peng Zhang

SIAM Journal on Computing (SICOMP), Special Section FOCS 2017 (2020)

# DOCTORAL THESIS

K36 Approximate Gaussian Elimination

### R. Kyng

Doctoral thesis, Yale University Department of Computer Science, 2017

# SELECTED MANUSCRIPTS

K37 Robust and Practical Solution of Laplacian Equations by Approximate Elimination

Y. Gao, R. Kyng, and D. Spielman

Under submission to the SIAM journal SISC

K38 Faster  $\ell_{\infty}$ -Regression

**D. Adil**, S. Jiang, and **R. Kyng** Under submission to SODA 2025

K39 Bootstrapping Dynamic APSP via Sparsification

R. Kyng, S. Meierhans, and G. Zöcklein

Under submission to SOSA 2025

K40 A Simple Dynamic Spanner via APSP

R. Kyng, S. Meierhans, and G. Zöcklein

Under submission to SOSA 2025

K41 Weighted p-norm Flows in Almost-Linear-Time and Fully Dynamic Low-Stretch Spanning Trees

L. Chen, R. Kyng, Y. Liu, M. Probst, and S. Sachdeva

Subsumed by K10

## **TALKS**

INVITED TALKS AND PEER- REVIEWED CONFERENCE PRESENTATIONS	Oberwolfach Combinatorial Optimization Workhop Almost-Linear Time Algorithms for Partially Dynamic Graphs	2024
	Informal Blackboard Talks, the Simons Institute, UC Berkeley Almost-Linear Time Algorithms for Incremental Graphs	2023
	Georgia Tech College of Computing Seminar Robust and Practical Solution of Laplacian Equations by Approximate Elimination	2023
	ICALP Invited Plenary Talk An Almost-Linear Time Algorithm for Maximum Flow and More	2023
	Dagstuhl Seminar on Scalable Data Structures  Dynamic Spanners	2023
	DIMACS Workshop on Modern Techniques in Graph Algorithms Tutorial: Graph Algorithms via Continuous Optimization and Data Structures	2023
	Perspectives on Matrix Computations: Theoretical Computer Science Meets Numerical Analysis BIRS Workshop Robust and Practical Solution of Laplacian Equations by Approximate Elimination	2023
	EFPL & ETHZ Swiss Winter School on Theoretical Computer Science Fast Graph Algorithms Using Optimization and Data Structures (four lectures)	2023

Columbia University Theory Seminar Maximum Flow and Minimum-Cost Flow in Almost-Linear Time	2022
Yale University Department of Computer Science Colloquium Maximum Flow and Minimum-Cost Flow in Almost-Linear Time	2022
Bernoulli Center Workshop: Modern Trends in Combinatorial Optimization EPFL Maximum Flow and Minimum-Cost Flow in Almost-Linear Time	2022
Milan Theory Workshop: Spectral and Convex Optimization Techniques in Graph Algorithms Bocconi University Maximum Flow and Minimum-Cost Flow in Almost-Linear Time	2022
Algorithms and Foundations for Data Science Workshop CMU/Nanyang Technological University Scalar and Matrix Chernoff Bounds from $\ell_{\infty}$ -Independence	2022
European Meeting on Algorithmic Challenges of Big Data University of Warwick/University of Warsaw Almost-Linear Time Algorithms for Maximum Flow and More	2022
TCS+ Talk Almost-Linear Time Algorithms for Maximum Flow and More	2022
Approximation and Relaxation Workshop Hausdorff Program on Discrete Optimization Two-Commodity Flow is as Hard as Linear Programming	2021
INFORMS Session on Bridging Discrete and Continuous Optimization A Numerical Analysis Approach to Convex Optimization	2021
Continuous Approaches to Discrete Optimization Workshop Hausdorff Program on Discrete Optimization A Numerical Analysis Approach to Convex Optimization	2021
Complexity of Matrix Computations Panel NCSU/UC Berkeley/University of Oxford/Cornell/Caltech Laplacian solvers	2021
Workshop on Algorithms for Large Data (WALD(O)) CMU/Google Research Hardness Results for Structured Linear Equations and Programs	2021
Max Planck Advanced Course on the Foundations of Computer Science (ADFOCS) Graphs, Sampling, and Iterative methods (three lectures)	2021
SIAM Annual Meeting Two-Commodity Flow is as Hard as Linear Programming	2021
Georgetown University Computer Science Colloquium A Numerical Analysis Approach to Convex Optimization	2021
Hebrew University Theory Seminar A Numerical Analysis Approach to Convex Optimization	2021
EPFL Theory Seminar A Numerical Analysis Approach to Convex Optimization	2020
ICCOPT, Berlin Optimization on Graphs	2019
Workshop on Fine Grained Approximation Algorithms & Complexity, Bertinoro Hardness Results for Structured Linear Systems	2019
UT Austin Theory Seminar A Numerical Analysis Approach to Convex Optimization	2019

Harvard Theory of Computation Seminar A Numerical Analysis Approach to Convex Optimization	2019
Beyond Randomized Rounding and the Probabilistic Method Workshop, Geometry of Polynomials Program at the Simons Institute, UC Berkeley A Matrix Chernoff Bound for Strongly Rayleigh Distributions and Spectral Sparsifiers from a few Random Spanning Trees	2019
SODA, San Diego Iterative Refinement for $\ell_p$ -norm Regression	2019
Bridging Continuous and Discrete Optimization Reunion Workshop The Simons Institute, UC Berkeley Iterative Refinement for $\ell_p$ -norm Regression	2018
Caltech Theory Seminar Approximate Gaussian Elimination	2018
Northwestern Quarterly Theory Workshop Analysis Using Matrix Martingales	2018
FOCS, Paris A Matrix Chernoff Bound for Strongly Rayleigh Distributions and Spectral Sparsifiers from a few Random Spanning Trees	2018
FOCS, Paris Solving Directed Laplacians in Nearly Linear Time through Sparse LU Factorizations	2018
Laplacians 2.0 Workshop, FOCS, Paris  Analysis Using Matrix Martingales	2018
Randomized Numerical Linear Algebra and Applications Workshop, Foundations of Data Science Program at the Simons Institute, UC Berkeley Analysis Using Matrix Martingales	2018
High-Performance Graph Algorithms Seminar, Dagstuhl $Optimization\ on\ Graphs$	2018
Discrepancy and Integer Programming Workshop, CWI Amsterdam $Matrix\ Approximation\ by\ Row\ Sampling$	2018
Graphs Across Domains Workshop, UC Berkeley Optimization on Graphs	2018
Michael Cohen Memorial Symposium, the Simons Institute, UC Berkeley Michael Cohen and Directed Laplacians	2017
Stanford Theory Seminar Approximate Gaussian Elimination	2017
FOCS, Berkeley Hardness Results for Structured Linear Systems	2017
UC Berkeley Theory Seminar Hardness Results for Structured Linear Systems	2017
Google Research Seminar, Mountain View Hardness Results for Structured Linear Systems	2017
Yale Department of Statistics and Data Science, YPNG Seminar Approximate Gaussian Elimination	2017
MSR Redmond Regression, Elimination, and Sampling on Graphs	2017
University of Copenhagen Theory Seminar Approximate Gaussian Elimination	2017
CMU Theory Seminar  Approximate Gaussian Elimination	2016

	Georgia Tech Theory Seminar Approximate Gaussian Elimination	2016
	UC Berkeley Math Dept. Seminar Approximate Gaussian Elimination	2016
	Google Research NYC Approximate Gaussian Elimination	2016
	FOCS, New Brunswick Approximate Gaussian Elimination	2016
	MIT A&C Seminar Approximate Gaussian Elimination	2016
	Aarhus University Theory Seminar  Lipschitz Learning on Graphs	2016
	China Theory Week, Hong Kong Approximate Gaussian Elimination	2016
	SIAM Annual Meeting, Boston Approximate Cholesky Factorization	2016
	STOC, Boston Sparsified Cholesky and Multigrid Solvers for Connection Laplacians	2016
	IT University of Copenhagen Theory Seminar Lipschitz Learning and Isotonic Regression on Graphs	2015
SELECTED STUDENT TALKS	Simon Meierhans at FOCS, Chicago Almost-Linear Time Algorithms for Decremental Graphs	2024
	Simon Meierhans at the MIT Algorithms and Complexity Seminar Almost-Linear Time Algorithms for Partially Dynamic Graphs	2024
	Simon Meierhans at the Brown University Theory Seminar Almost-Linear Time Algorithms for Partially Dynamic Graphs	2024
	Simon Meierhans at STOC, Vancouver Almost-Linear Time Algorithms for Incremental Graphs	2024
	Simon Meierhans at STOC, Vancouver A Dynamic Shortest Paths Toolbox	2024
	Simon Meierhans at the UC Berkeley Theory Seminar Almost-Linear Time Algorithms for Incremental Graphs	2024
	Simon Meierhans at the Stanford Theory Seminar Almost-Linear Time Algorithms for Incremental Graphs	2024
	Simon Meierhans at Google Research Mountain View Almost-Linear Time Algorithms for Incremental Graphs	2024
	Yves Baumann at SPAA, Nantes A Framework for Parallelizing Approximate Gaussian Elimination	2024
	Yves Baumann at Huawei, Zurich A Framework for Parallelizing Approximate Gaussian Elimination	2024
	Cella Florescu at ICALP, Tallinn Optimal Electrical Oblivious Routing on Expanders	2024

#### COMMUNITY INVOLVEMENT

ACADEMIC Reviewer, ERC Consolidator Grant 2024

SERVICE Program Committee, Symposium on Theory of Computing (STOC) 2025, ongoing

Program Committee, International Colloquium on Automata,

Languages and Programming (ICALP) 2024

Program Committee, Symposium on Discrete Algorithms (SODA) 2024 Program Committee, Symposium on Simplicity in Algorithms (SOSA) 2024 Program Committee, Symposium on Theory of Computing (STOC) 2023 Program Committee, Symposium on Discrete Algorithms (SODA) 2023

Program Committee for Track S, European Symposium on Algorithms (ESA) 2022

Program Committee, Symposium on Theory of Computing (STOC) 2022 Program Committee, Symposium on Simplicity in Algorithms (SOSA) 2022 Program Committee for Track A, European Symposium on Algorithms (ESA) 2021 Program Committee, Innovations in Theoretical Computer Science (ITCS) 2020

Conference reviews, 2024: STOC, ITCS, SODA, FOCS

Journal reviews, 2023: SICOMP, JACM

Conference reviews, 2023: FOCS, STOC, SODA, SOSA

Journal reviews, 2022: Journal of Fourier Analysis and Applications, ACM Transactions on

Computation Theory

Conference reviews, 2022: STOC, ICALP, FOCS, ESA, SODA, ITCS Conference reviews, 2021: RANDOM, FOCS, SODA, ESA, SOSA

Journal reviews, 2020: JACM

Conference reviews, 2020: ITCS, STOC, FOCS, ISAAC, SODA

Journal reviews, 2019: ToC

Conference reviews, 2019: COLT, ICALP, FOCS, STOC, ITCS

CONFERENCE AND WORKSHOP

Local Chair, Highlights of Algorithms (HALG) 2025, ongoing

ORGANIZING

EFPL & ETHZ Swiss Winter School on Theoretical Computer Science

January 2025
EFPL & ETHZ Swiss Winter School on Theoretical Computer Science

January 2024

Workshop: Optimization and Algorithm Design

Fall 2023

UC Berkeley Simons Insitute Program

on Data Structures and Optimization for Fast Algorithms

ETH SERVICE D-INFK Strategy Commission

Board of the Institute for Theoretical Studies

ETH Hiring Commissions

ETH Research Commission

D-INFK Teaching Commission

Spring 2024–Fall 2025

Fall 2024–Spring 2029

Fall 2023 (direct hire), Spring 2024

Spring 2023

Spring 2020-Fall 2021

RESEARCH

ETH Zurich Algorithms and Complexity Seminar

Fall 2020–present

SEMINARS

INTER- Member of the Foundations of Data Science Seminar

Fall 2020-present

DISCIPLINARY CENTERS