

# Optimizing Instructions and Demonstrations for Multi-Stage Language Model Programs

Krista Opsahl-Ong<sup>1\*</sup>, Michael J Ryan<sup>1\*</sup>, Josh Purtell<sup>2</sup>,  
David Broman<sup>3</sup>, Christopher Potts<sup>1</sup>, Matei Zaharia<sup>4</sup>, Omar Khattab<sup>1</sup>

<sup>1</sup>Stanford University, <sup>2</sup>Basis, <sup>3</sup>KTH Royal Institute of Technology <sup>4</sup>UC Berkeley

## Abstract

Language Model Programs, i.e. sophisticated pipelines of modular language model (LM) calls, are increasingly advancing NLP tasks. However, building these pipelines requires crafting prompts that are jointly effective for all modules. We study prompt optimization for LM programs, i.e. how to update these prompts to maximize a downstream metric without access to module-level labels or gradients. To make this tractable, we factorize



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