

EarShift

RESEARCH GOAL · LISTENING INTELLIGENCE FOR REAL SPEECH

Predict the next listening miss.

A short diagnostic for known English that disappears in new natural speech.

MEASURE → EXPLAIN → TRAIN → TEST TRANSFER



WORKING RESEARCH PROTOTYPE · 2026

The subtitle shows words the ear never found.

A learner can know the vocabulary and still fail to recover it from reduced, connected, fast speech.

REDUCTION

did you → didja

BOUNDARY

an aim ↔ a name

CONTRAST

fifteen ↔ fifty

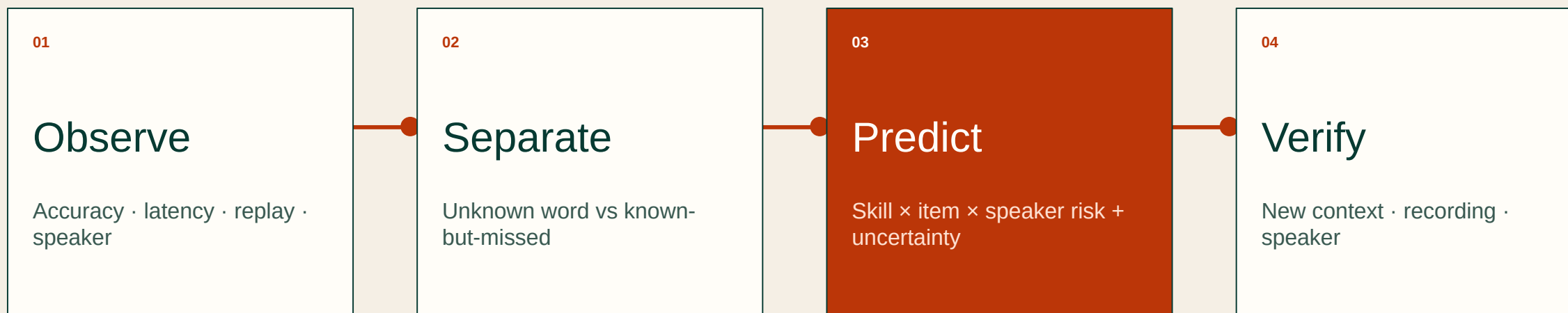
DIALOGUE

gist ↔ detail

The R&D question is not “can we show exercises?”

It is: can sparse evidence identify the bottleneck before the next recording?

From a short test to a calibrated next-error prediction.



DEFENSIBLE OUTPUT

A probability and uncertainty estimate on held-out natural speech—not another total score.

Pronunciation apps train the mouth. EarShift tests what the ears predict.

PRONUNCIATION APPS

Speaking production

Record → repeat → score

CAPTIONED VIDEO APPS

Supported
comprehension

Watch → reveal → replay

EARSHIFT

Unseen listening
transfer

Predict → train → hold out

Adjacent products can be valuable. EarShift's claim is narrower—and testable.

Prove prediction. Then prove selection.



Evaluation plan

01

Held-out benchmark

Matched A/B forms. New recordings, contexts and speakers. Difficulty and ambiguity audit.

02

Causal-source model

Beat proficiency-, vocabulary- and total-score baselines on calibrated new-item error prediction.

03

Adaptive vs control

Equal time and feedback. Different selection policy. Immediate plus 24–72h delayed transfer.

PRIMARY ENDPOINT

Accuracy on unseen speech from the targeted skill—not improvement on trained clips.

The research loop runs. The outcome question is open.

8

compensated formative
participants

3/3

completed the latest pilot

4.7/5

latest-pilot engagement

118

latest trials with complete core
events

WHAT THE PILOT EXPOSED

93.1% item-answer accuracy created a ceiling. Film Form A/B difficulty diverged. Result fit was 0/3 “yes.”

CURRENT CLAIM

Feasible research loop.
No learning-effect claim.

Learner first. Workforce second.

One measurement layer; expanding buyers and contexts.

01

B2C

Free diagnostic → paid personalized training + transfer checks

02

B2B2C

Language schools, universities and training providers

03

WORKFORCE

Job-relevant listening risk + testing unseen transfer



Revenue hypothesis

subscription + per-learner
licensing

I knew the words. But speech vanished.

Yuliia Sereda

Founder · Senior Software Engineer · 9 years · M.S. Computer Science
After moving to the U.S., Yuliia found that knowing English did not guarantee understanding fast, connected speech—or films without subtitles.
That gap became EarShift: diagnose the breakdown, train it, then test transfer on genuinely unseen speech.
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PLANNED RESEARCH TEAM

L2 speech scientist · quantitative advisor · research / IRB partner



SEEKING

Phase I R&D + research collaborators