

Company overview

Quantitative research developed into testable products

EQRC is an independent research laboratory founded by Dr Babak Mahdavi-Damghani. It develops proprietary models, working prototypes and commercial products across finance and selected adjacent markets.

CURRENT FOCUS

Stable Match

EQRC's first commercial launch is a live dating MVP built around ranked preferences and stable matching.

Portfolio areas

**Systematic investment
products**
Financial analytics and risk
New markets and spin-outs

The research laboratory model

01

Research

Define the problem, assumptions and method.

02

Evidence

Create a paper, technical document, working model or MVP.

03

Commercial test

Run a pilot, license the model, partner or form a spin-out.

Separate product decisions

Each project can advance, pause or stop on its own evidence.

Shared technical foundations

Research, code and data can support more than one product when the fit is real.

Different market timing

A sound project may wait until customers are ready, regulation becomes clearer or a suitable partner is available.

Portfolio breadth gives EQRC another route forward when one market moves slowly.

LAB FOUNDATION

RESEARCH → MODULES → MARKETS



Proprietary Models

Unique IP and model development



IVP
Implied vol smile



HFTE
Neural networks



Cointelation
Mean-reverting process



UTOPE
Two smiles



Multi-Target Tracking
Target optimisation



More Models
And beyond



Governed Data

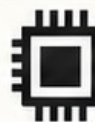
Governed financial data acquisition / client data control



Open-Source Components

Interchangeable and extensible

- Summarization
- Topic Modelling
- Sentiment Analysis
- n-grams
- More components



LLM Sidcars

- OpenAI API
- Anthropic API
- Gemini API
- Mistral API



SHARED
MODULES
& IP

COMMON
TECHNOLOGY
MULTIPLE
APPLICATIONS

SYSTEMATIC INVESTMENT PRODUCTS

SMA SYSTEMATIC TRADING



Crypto L/S
Digital assets



Global Macro
Cross-asset



Equities L/S
Global & regional



Commodities L/S
Energy & materials



SMA Systematic Trading (Others)
Rules-based alpha



Alternative Strategies
Diversified approaches



Multi-Asset
Multi-asset solutions



Custom Mandates
Client-specific products



FINANCIAL ANALYTICS & RISK

DEEPER INSIGHT. BROADER APPLICATIONS.



Volatility Surface Engine
Options & derivatives



Complex Portfolio Risk Management
Multi-asset, multi-risk



Financial Anomaly Detection
Signals & irregularities



P&L in NLP
Unstructured to insight



Market Simulator
Strategy & scenario analysis



Other Projects
Exploratory applications



NEW MARKETS & SPIN-OUTS

SAME TECHNOLOGY. NEW OPPORTUNITIES.



Stable Match
ENTRY POINT
AI for human connection



Model Validation Pal
Independent model review



GeoRisk
Geospatial intelligence



Defence Applications
Dual-use innovation



Future Products
New markets ahead



Modularity



Stand-Alone Monetization



Bundle Monetization

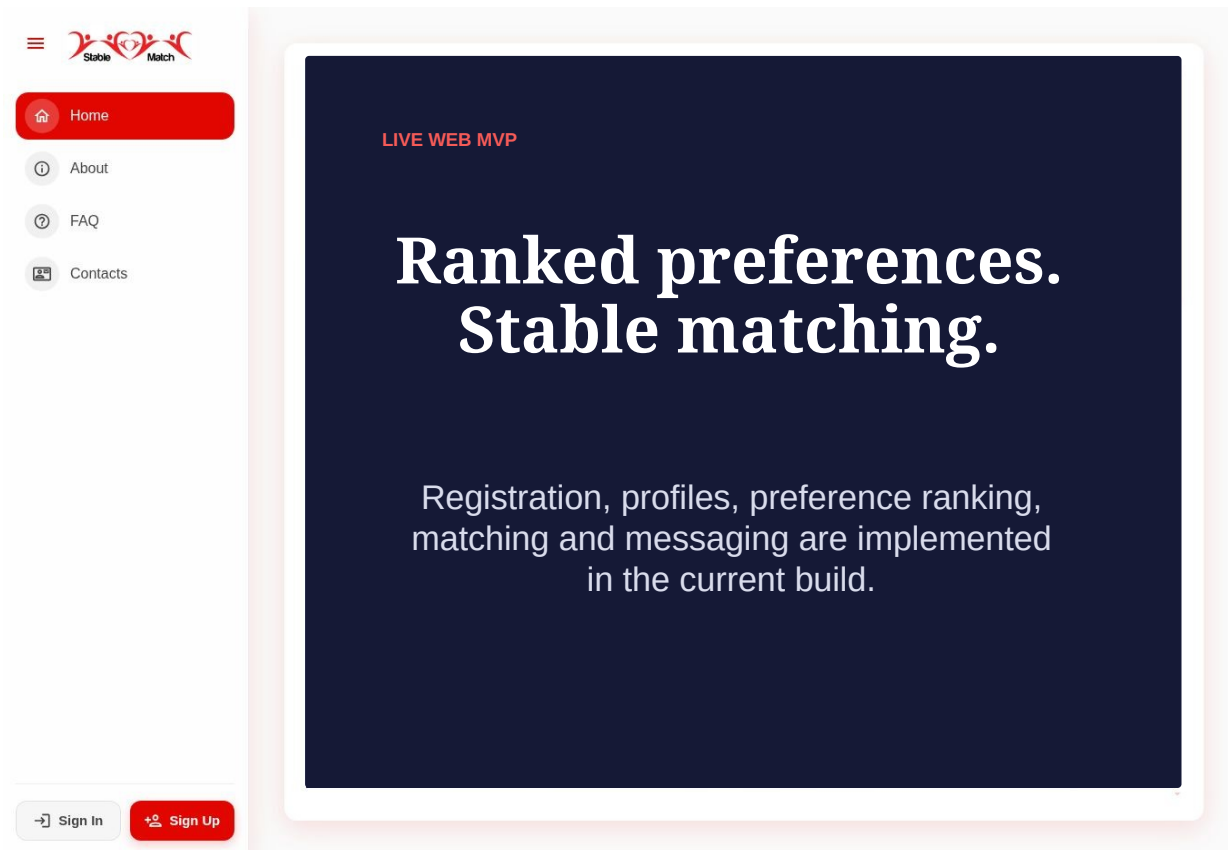


Diversified Portfolio



Compounding Through Reuse

Stable Match: first commercial launch



HOW THE MATCHING WORKS

- 1 Choose** Users identify profiles they would genuinely consider.
- 2 Rank** They order those acceptable profiles by preference.
- 3 Pair** The algorithm compares mutual rankings and produces stable pairings.

Technical meaning

No unmatched pair would both prefer each other to their assigned partners. This does not guarantee relationship compatibility.

Live product: stable-match.com/login

Recorded demo: youtube.com/watch?v=uIANhj3PA90

Founder and public evidence



Dr Babak Mahdavi-Damghani

Founder and CEO

Oxford doctorate in machine learning for quantitative finance, following more than a decade in banking and quantitative research.

RESEARCH AND INDUSTRY RECORD

Experience includes Citigroup, Société Générale, Credit Suisse, London Stock Exchange Group, Oxford Man Institute of Quantitative Finance and Andurand Capital.

Published work spans forecasting, market microstructure, volatility, systematic trading, crypto sectorisation and realistic market simulation.

PUBLIC LINKS

Company	eqrc.co.uk
Academic CV	eqrc.co.uk/wp-content/uploads/2026/07/Babak_Mahdavi_Damghani_Academic_CV_December_2025-3.pdf
Contact	bmd@eqrc.co.uk

Investor materials and technical documents are available privately on request.