

# Michael Maclean

Football Data & Recruitment Analyst | MSc Sport Data Analytics

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## Profile

MSc Sport Data Analytics graduate from the University of Strathclyde with a BSc (Hons) in Data Science from the University of Stirling. Recently completed a professional placement with Dundee United FC, supporting the recruitment workflow through video-led player assessment and reproducible analysis pipelines in R.

Experience assessing whether video evidence aligns with the underlying player data profile, producing concise written player reports with structured scoring, and building custom tagging, annotation, and clip-package workflows for coaches and staff.

Technical toolkit includes R, Python, SQL, Tableau, and version-controlled workflows.

## Applied Football Data Experience

### Recruitment Analyst Intern - Dundee United FC *Nov 2025 - Aug 2026*

- Reviewed prospective signings identified through a data-first process on a weekly basis, assessing whether Wyscout video aligned with the underlying data profile and scoring against key recruitment traits.
- Built a reproducible data extraction and analysis pipeline in R using the StatsBomb API, covering data cleaning, feature engineering, and custom metric computation feeding into a Shiny dashboard for recruitment and analysis staff.
- Maintained the department-shared player tracking database with structured assessment fields, working under departmental deadlines and confidentiality requirements.

### In-Ground Correspondent - Stats Perform *Jul 2026 - Present*

- Record live match data following strict accuracy and timing standards under matchday conditions, maintaining data integrity at the point of collection for downstream commercial and analytical use.

### Opposition Scout & Match Analyst Volunteer - Brechin City FC/Berwick Rangers FC *Jun 2025 - Present*

- Built a custom Nacsport tagging panel targeting clips coaches desire, turning recorded footage into a filterable clip database attributing every event to a specific player/team.
- Produce annotated clip packages and opposition reports covering team shape across transition stages, individual player tendencies, and set-piece routines, using on-screen annotation to highlight shapes, spaces, and player actions.
- Attend fixtures to observe and assess opposition live and communicate tactical strengths, weaknesses, and key patterns clearly to coaching staff.

### Independent Football Modelling Project *2016 - 2024*

- Built and maintained a long-running probability modelling pipeline using web scraping and Poisson-based statistical models to estimate results across multiple leagues.
- Developed a custom weighted form metric placing greater weight on recent fixtures.
- Migrated the workflow from Google Sheets to Python to improve scalability, automation, and processing speed.

## Selected Projects

### Scottish Premiership 2025/26 Throw-In Dashboard *2026*

- Built a full analysis pipeline in R covering data extraction from the StatsBomb API, cleaning, feature engineering, and metric computation across all Scottish Premiership throw-in events.
- Developed an interactive Shiny dashboard with KPI summaries, filters, and visual comparisons designed for technical staff to explore league-wide throw-in tendencies.

### MSc Dissertation Project - Points Above Replacement Model *2025-2026*

- Based on baseball's Wins Above Replacement metric, I developed a player valuation model across Europe's top seven leagues using FBref data, applying factor analysis and position-specific statistical modelling in R.
- Validated against market value and end-of-season awards.

### Multi-League Player Scouting Scraper *2026*

- Built a FotMob web scraper in R for collecting player-level season data across leagues, covering performance metrics, biographical detail, and contract expiry.

### Kinovea Angle Export Enhancement *2025*

- Contributed to the Kinovea open-source video analysis tool via GitHub, extending CSV export functionality to include angle measurements for applied sports analysis.

## Analysis Toolkit

- **Data Modelling:** Statistical modelling, factor analysis, probability models, regression, cleaning and validation, web scraping
- **Data Platforms:** StatsBomb API, Tableau, Shiny, Git/GitHub
- **Methods:** Data visualisation, dashboard development, data collection and automation, version control, open-source contribution
- **Programming:** R, Python, SQL, Google Sheets, Excel

## Education

### MSc Sport Data Analytics - University of Strathclyde *2025 - 2026 (Distinction expected in September 2026)*

- Focused on football data analysis, performance analysis, applied statistics, and reporting workflows in sport.
- Applied R, Python, and SQL to athlete data, dashboard development, and football-specific analysis tools including Nacsport and Hudl Sportscode.

### BSc (Hons) Data Science - University of Stirling *2021 - 2025*

- Built a strong foundation in statistical analysis, data cleaning, and data visualisation across diverse domains.

## Additional Information

- Available immediately and willing to relocate
- Full, clean UK driving licence
- Scottish FA Introduction to Talent Identification 1.1, 1.2, & 1.3 - booked, November 2026
- ISAK Level 1 Kinanthropometry - booked, September 2026
- References available to contact [here...](#)
- Full portfolio with case studies and projects available at [www.michaelmaclean.scot](http://www.michaelmaclean.scot)