# Evaluation metrics

## Statistical parity

* References:
* Paper “Fairness of Machine Learning,” part 2.1, Demographic Parity
* Paper “A survey on datasets for fairness‐aware machine learning,” part 2.3.1

## Equalized odds

* References:
* Paper “Fairness of Machine Learning,” part 2.2, Equal False Positive/Negative Rates (EFPRs/EFNRs)
* Paper “A survey on datasets for fairness‐aware machine learning,” part 2.3.2

## Absolute Between-ROC Area

* References:
* Paper “Fairness of Machine Learning,” part 2.2, Predictive Parity/Calibration
* Paper “A survey on datasets for fairness‐aware machine learning,” part 2.3.2
* Paper “Fair Clustering via Equitable Group Representations”

# References

## Paper

### Fairness of Machine Learning

* Link: <https://arxiv.org/pdf/2012.15816.pdf>
* Focus: Part 2.1, page 3

### A survey on datasets for fairness‐aware machine learning

* Link: [A survey on datasets for fairness‐aware machine learning - Le Quy - 2022 - WIREs Data Mining and Knowledge Discovery - Wiley Online Library](https://wires.onlinelibrary.wiley.com/doi/10.1002/widm.1452#widm1452-bib-0068)
* Focus: Part 2.3

### Fair Clustering via Equitable Group Representations

* Link: <https://dl.acm.org/doi/pdf/10.1145/3442188.3445913>

## Python Package documentation

### Fairlearn

* Main: [Fairlearn](https://fairlearn.org/)
* Evaluation metrics: [Common fairness metrics](https://fairlearn.org/main/user_guide/assessment/common_fairness_metrics.html)