Estimation Method	Model Type	Inputs	Assumptions	Description
Anderson et al. (2019)	GMM	Linked dataset with multiple matches $(x_i, \{y_{i\ell}\}_{\ell=1}^{L_i})_{i=1}^n$	Datasets are random samples conditional on the matching variables; each x_i has exactly one true link among its matched outcomes $\{y_{i\ell}\}_{\ell=1}^{L_i}$, and each $y_{i\ell}$ is equally likely to be the correct match	Rewrite the moments as a difference between the sum of the moments for all possible links and a conditional expectation of the moment function based on <i>i</i> 's identifying variables; estimation and variance estimation proceed as standard 2-step semiparametric GMM problem
Lahiri and Larsen (2005)	GLM	Files A and B, linked via Fellegi-Sunter/EM algorithm method	Each record in File A has exactly one true link in File B; distribution of matching variables is independent of the response variable	Apply OLS to a transformed regression model constructed using parameter estimates from the Fellegi-Sunter/EM algorithm method; estimate the variance using parametric bootstrap
Scheuren and Winkler (1991, 1993, 1997)	GLM	tbd		Propose a bias correction for OLS, using a weighted average of responses from all observations and the actual response y_i
Nix and Qian (2015)				
Bleakley and Hoyt (2016)				
Hirukawa and Prokhorov (2018)	GLM	Linked dataset using NN/highest probability matching	The samples jointly identify the regression models	Bias correction for nearest-neighbor matched samples; could be used if we define an appropriate metric for matching variables and use a nearest neighbor matching rule
Goldstein et al. (2012)	GLM			Modify the match probabilities obtained from probabilistic record linkage by multiplying it with a likelihood component, then select as a match the record with the highest modified probability exceeding a threshold. For records with no match, impute values of y with standard methods, and estimate in standard way
Anderson (2019)	GMM	Files A and B, linked via Fellegi-Sunter/EM	Want to relax the assumption where matching variables are independent of the response variable, or the true link is not included among possible matches.	Compare PII with multiple matches vs. only one match; compare one match with weighted linear sum assignment vs. other