



**FIGURE 7.13.** For the **Wage** data, the logistic regression GAM given in (7.19) is fit to the binary response  $\mathbf{I}(\text{wage} > 250)$ . Each plot displays the fitted function and pointwise standard errors. The first function is linear in **year**, the second function a smoothing spline with five degrees of freedom in **age**, and the third a step function for **education**. There are very wide standard errors for the first level <HS of **education**.