

Robots are taking over jobs, but not at the rate you might think

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The study found that robots aren't replacing humans at the rate most people think, but people are prone to exaggerate the rate of robot takeover. Credit: Jaren Wilkey, BYU

It's easy to believe that robots are stealing jobs from human workers and drastically disrupting the labor market; after all, you've likely heard that chatbots make more efficient customer service representatives and that computer programs are tracking and moving packages without the use of human hands.

But there's no need to panic about a pending [robot](#) takeover just yet, says a new study from BYU sociology professor Eric Dahlin. Dahlin's research found that robots aren't replacing humans at the rate most people think, but people are prone to severely exaggerate the rate of robot takeover.

The study, recently published in *Socius: Sociological Research for a Dynamic World*, found that only 14% of workers say they've seen their job replaced by a robot. But those who have experienced job displacement due to a robot overstate the effect of robots taking jobs from humans by about three times.

To understand the relationship between job loss and robots, Dahlin surveyed nearly 2,000 individuals about their perceptions of jobs being replaced by robots. Respondents were first asked to estimate the percentage of employees whose employers have replaced jobs with robots. They were then asked whether their employer had ever replaced their job with a robot.

Those who had been replaced by a robot (about 14%), estimated that 47% of all jobs have been taken over by robots. Similarly, those who hadn't experienced job replacement still estimated that 29% of jobs have been supplanted by robots.



Only 14% of workers say their job has been replaced by a robot. Those who have experienced job displacement overstate the effect robot takeover by about three times. Credit: Jaren Wilkey, BYU

"Overall, our perceptions of robots taking over is greatly exaggerated," said Dahlin. "Those who hadn't lost jobs overestimated by about double, and those who had lost jobs overestimated by about three times."

Attention-grabbing headlines predicting a dire future of employment have likely overblown the threat of robots taking over [jobs](#), said Dahlin, who noted that humans' fear of being replaced by automated work processes dates to the early 1800s.

"We expect novel technologies to be adopted without considering all of

the relevant contextual impediments such as cultural, economic, and government arrangements that support the manufacturing, sale, and use of the technology," he said. "But just because a technology can be used for something does not mean that it will be implemented."

Dahlin says these findings are consistent with [previous studies](#), which suggest that robots aren't displacing workers. Rather, workplaces are integrating both employees and robots in ways that generate more value for human labor.

"An everyday example is an autonomous, self-propelled machine roaming the aisles and cleaning floors at your local grocery store," says Dahlin. "This robot cleans the floors while employees clean under shelves or other difficult-to-reach places."

Dahlin says the [aviation industry](#) is another good example of robots and humans working together. Airplane manufacturers used robots to paint airplane wings. A robot can apply one coat of paint in 24 minutes—something that would take a human painter hours to accomplish. Humans load and unload the paint while the robot does the painting.

More information: Eric Dahlin, Are Robots Really Stealing Our Jobs? Perception versus Experience, *Socius: Sociological Research for a Dynamic World* (2022). [DOI: 10.1177/23780231221131377](https://doi.org/10.1177/23780231221131377)

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