

Psychological Science.

"Our research shows that people infer a wide range of [personality](#) traits just by looking at the physical features of a particular body," says psychological scientist Ying Hu of the University of Texas at Dallas, first author on the research. "Stereotypes based on [body shape](#) can contribute to how we judge and interact with new acquaintances and strangers. Understanding these biases is important for considering how we form first impressions."

Previous research has shown that we infer a considerable amount of social information by looking at other people's faces, but relatively little research has explored whether body shapes also contribute to these judgments.

"We wanted to know whether we could link personality descriptor words to body shape in predictable ways," explains Hu. "That is, do people look at a person's body and make snap judgments about whether the person is lazy, enthusiastic, or irritable?"

Hu and colleagues created 140 realistic body models, of which 70 were female and 70 male. The three-dimensional renderings were generated from random values along 10 different body dimensions, using data from laser scans of actual human bodies. Using these models allowed the researchers to know the precise physical measurements of each body shown in the study.

A total of 76 undergraduate participants viewed a set of models—they saw each body from two angles and indicated whether 30 trait words shown on screen applied to that body. The trait words reflected dimensions of the Big Five personality traits (a common measure of personality used in psychology research) typically seen as positive (e.g., enthusiastic, extraverted, dominant) or negative (e.g., quiet, reserved,

shy).

The researchers analyzed whether participants consistently associated specific traits with certain types of bodies.

Generally, participants judged heavier bodies as being associated with more negative traits, such as being lazy and careless; they judged lighter bodies as having more positive traits, such as being self-confident and enthusiastic.

Furthermore, the participants perceived classically feminine (e.g., pear-shaped) and classically masculine (e.g., broad-shouldered) bodies as being associated with "active" traits, such as being quarrelsome, extraverted, and irritable. Male and female bodies that were more rectangular, on the other hand, were associated with relatively passive traits, such as being trustworthy, shy, dependable, and warm.

In additional analyses, the researchers found that they could reliably predict personality trait judgments from specific combinations of different body shape features.

"To our knowledge, this is the first study to consider the role of more nuanced aspects of body shape—beyond height and weight—in personality judgments about people," says Alice O'Toole, coauthor and professor of the University of Texas at Dallas.

The tendency to infer [personality traits](#) from body shape is likely universal, the authors argue, but they note that the exact inferences people make will vary according to their culture, ethnicity, and even age. And it remains to be seen how other characteristics, such as attractiveness or gender, interact with [body](#) shape to influence the inferences that people make.

These findings add a new layer to the science behind first impressions, revealing "the complicated and value-based judgments that people make about strangers based only on their bodies," Hu concludes.

More information: Ying Hu et al, First Impressions of Personality Traits From Body Shapes, *Psychological Science* (2018). [DOI: 10.1177/0956797618799300](https://doi.org/10.1177/0956797618799300)

Provided by Association for Psychological Science

Citation: People link body shapes with personality traits (2018, November 1) retrieved 8 May 2024 from <https://medicalxpress.com/news/2018-11-people-link-body-personality-traits.html>

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