



## Andrea Vacca

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PhD 2005, University of Florence, Italy  
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**Instructor** for ABE 43500 Hydraulic Control Systems and ME 53500 Design of Fluid Power Systems

**Research interests:** High-efficient hydraulics, Electrification of fluid power systems, Advanced control methods for fluid power systems, Noise control and acoustics for fluid power systems, Fluid cavitation and aeration, Pump and motor design and modeling

### Significant Papers

Vacca, A., Guidetti, M., 2011, *Modelling and Experimental Validation of External Spur Gear Machines for Fluid Power Applications*, Journal of Simulation Modelling Practice and Theory, 19 (2011), pp. 2007–2031.

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### Significant Patents

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Fiorati S., Fox J.D., Pintore F., Vacca A., Tian X., *System and Method for Controlling Hydraulic Fluid Flow within a Work Vehicle*, US11,143,211.

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