

They are happy
They do not know
what is waiting them



Start of the expedition was uneventful



A woman with short brown hair and glasses, wearing a black t-shirt, is seen from behind, paddling a canoe. She is using a red and yellow paddle. The canoe is on a narrow, shallow channel of water. The channel is bordered by large, grey, layered rock formations. In the center of the channel, there is a dark, shadowed opening or archway in the rock. The water is a murky green color. The scene is outdoors, with some green foliage visible on the left side of the rock formation.

Arches

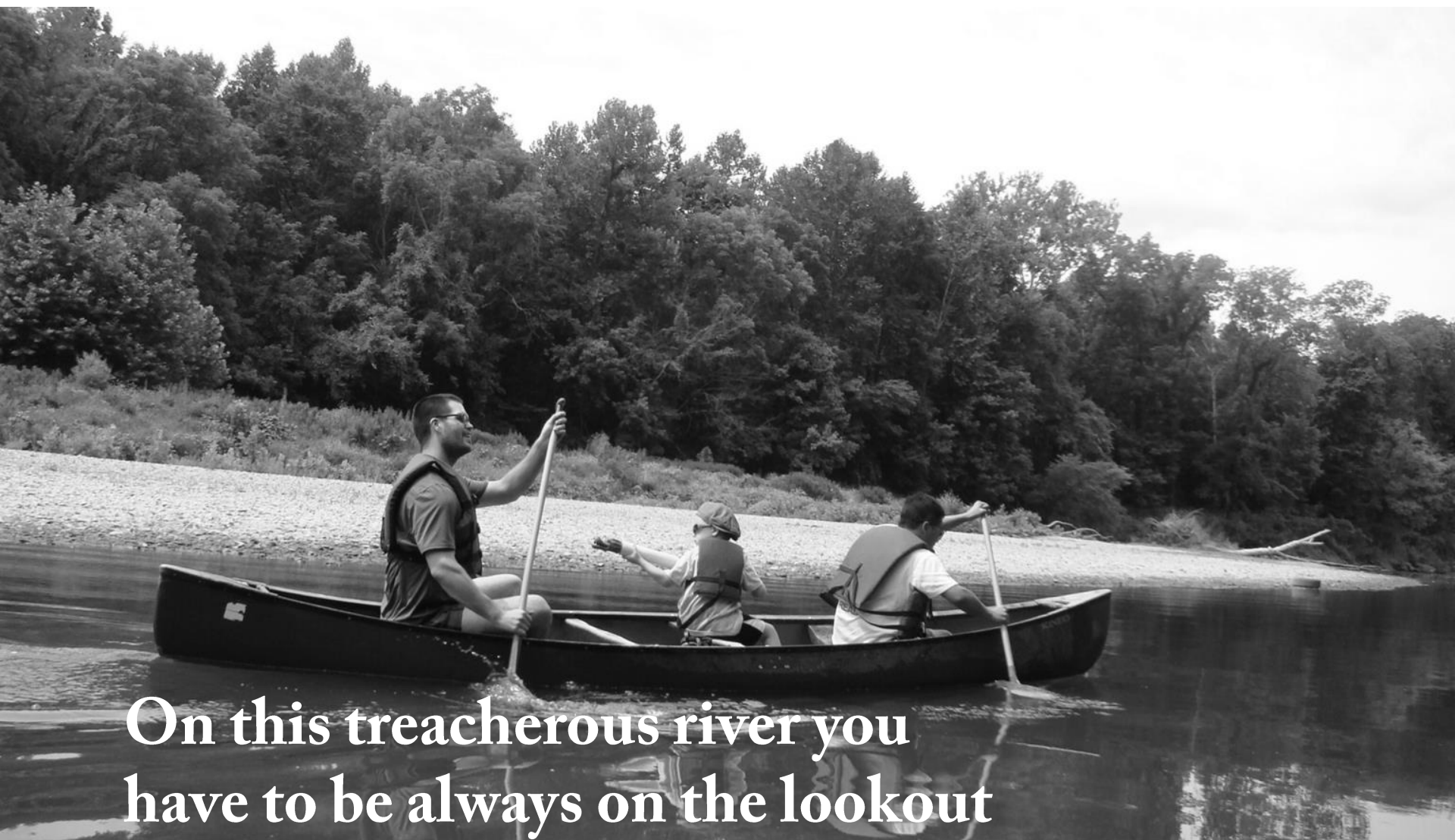
However difficulties
started to emerge
pretty soon

Dangerous floating
objects





Things changed to worse
before they become better



**On this treacherous river you
have to be always on the lookout**

Armed and very dangerous!



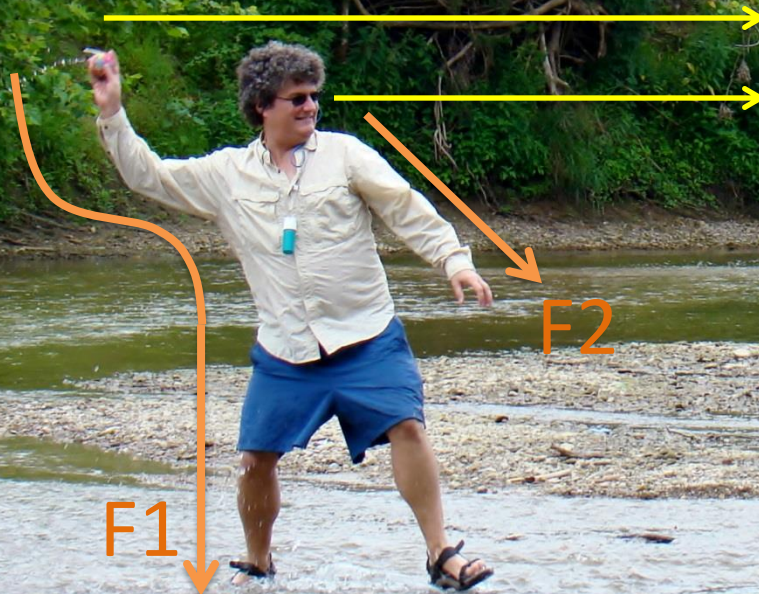
Dance of escape



Probably ... happy?!



Excellent technique



$$\ddot{x}_n = -\frac{\rho \cdot S}{2 \cdot m} (\dot{x}_n^2 + \dot{y}_n^2 + \dot{z}_n^2) (c_{L1} \cdot \cos(\phi) \cdot \sin(\beta) + c_D \cdot \cos(\alpha) \cdot \cos(\beta))$$

$$x_{n+1} = x_n + \dot{x}_n \cdot dt + \frac{1}{2} \ddot{x}_n \cdot dt^2$$

$$\dot{x}_{n+1} = \dot{x}_n + \ddot{x}_n \cdot dt$$

$$\ddot{y}_n = -\frac{\rho \cdot S}{2 \cdot m} (\dot{x}_n^2 + \dot{y}_n^2 + \dot{z}_n^2) (c_{L1} \cdot \cos(\phi) \cdot \cos(\beta) + c_{L2} \cdot \cos(\phi) + c_D \cdot \sin(\beta))$$

$$y_{n+1} = y_n + \dot{y}_n \cdot dt + \frac{1}{2} \ddot{y}_n \cdot dt^2$$

$$\dot{y}_{n+1} = \dot{y}_n + \ddot{y}_n \cdot dt$$

$$\ddot{z}_n = -\frac{\rho \cdot S}{2 \cdot m} (\dot{x}_n^2 + \dot{y}_n^2 + \dot{z}_n^2) (-c_{L1} \cdot \sin(\beta) + c_{L2} \cdot \sin(\phi) + c_D \cdot \sin(\alpha)) - g$$

$$z_{n+1} = z_n + \dot{z}_n \cdot dt + \frac{1}{2} \ddot{z}_n \cdot dt^2$$

$$\dot{z}_{n+1} = \dot{z}_n + \ddot{z}_n \cdot dt$$

Born to be Viking



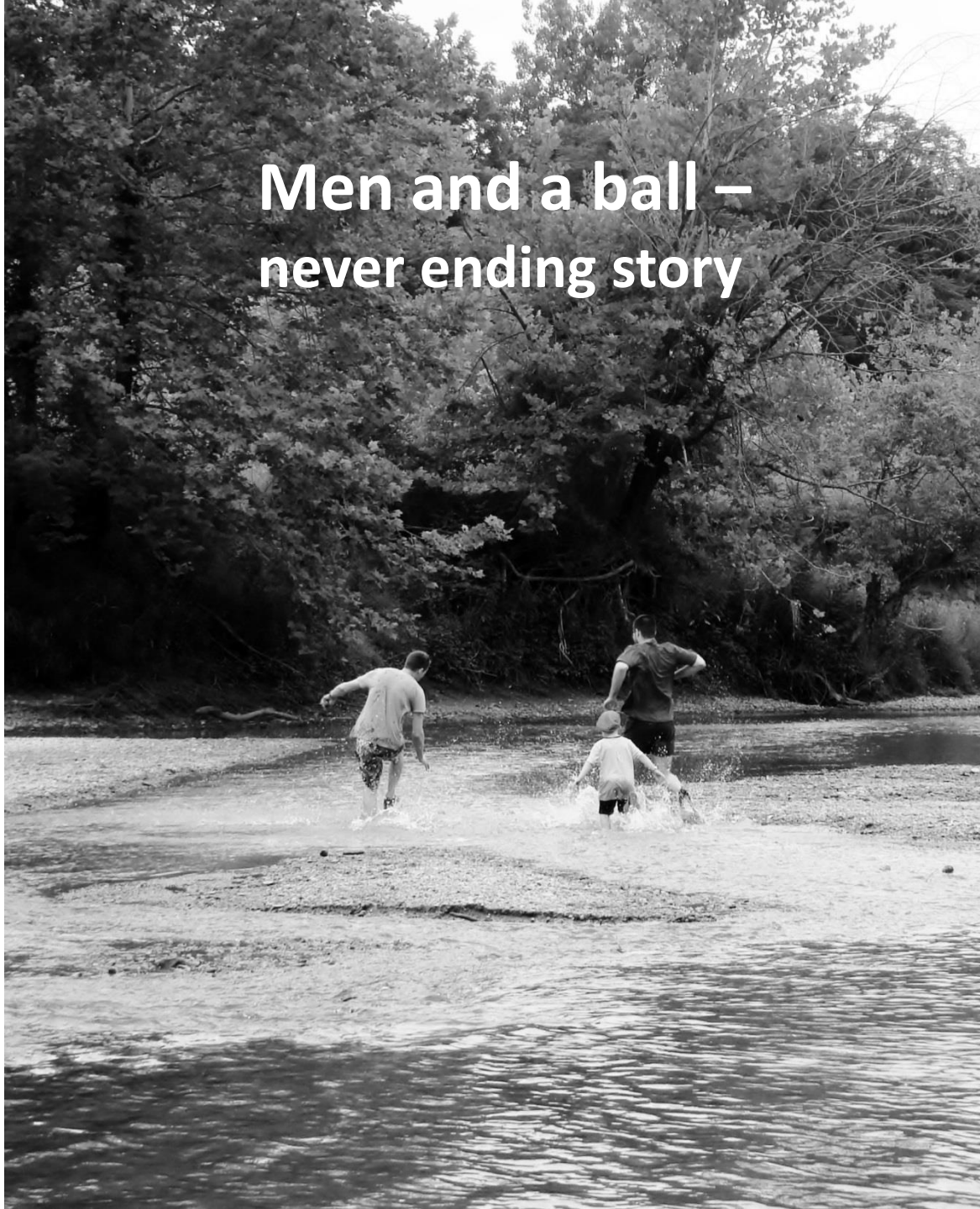
Graduate student



Full professor



**Men and a ball –
never ending story**



**Not sure that
they got the
ball**



Unsuspecting
victim



Fight



Great technique of
avoiding of strike



Uncompromising Adversaries



10 miles is over – Victory!



Cover for not produced music album titled

“Canoeing with brains”



Who it can
be?

