$$\frac{\mathsf{ufp}(\mathsf{c}) = u}{\Gamma \vdash \mathsf{c\#p} \; : \; \mathsf{Float}[\mathsf{u},\mathsf{p}]} \qquad \qquad \frac{x : \mathsf{Float}[\mathsf{u},\mathsf{p}] \in \Gamma}{\Gamma \vdash x \; : \; \mathsf{Float}[\mathsf{u},\mathsf{p}]}$$

 $+: \Pi u_1: \mathtt{int}.\Pi p_1: \mathtt{int}.\Pi u_2: \mathtt{int}.\Pi p_2: \mathtt{int}. \\ \Pi p_2: \mathtt{int}.\Pi p_2: \mathtt$ 

 $\begin{aligned} \texttt{+}: \Pi u_1: \texttt{int}, p_1: \texttt{int}, u_2: \texttt{int}, p_2: \texttt{int}. \\ &\texttt{Float}[u_1, p_1] \to \texttt{Float}[u_2, p_2] \to \texttt{Float}[\mathcal{U}_+(u_1, u_2), \mathcal{P}_+(u_1, u_2)] \end{aligned}$ 

 $\frac{\Gamma, x: \mathsf{T}_1 \vdash e: \mathsf{T}_2}{\Gamma \vdash \lambda x: \mathsf{T}_1.e: \Pi x: \mathsf{T}_1.\mathsf{T}_2} \qquad \qquad \frac{\Gamma \vdash e_1: \Pi x: \mathsf{T}_1.\mathsf{T}_2 \qquad \Gamma \vdash e_2: \mathsf{T}_1}{\Gamma \vdash e_1 \ e_2: \mathsf{T}_2[x \mapsto e_2]}$